

SONY

KV-X25TU

MODEL

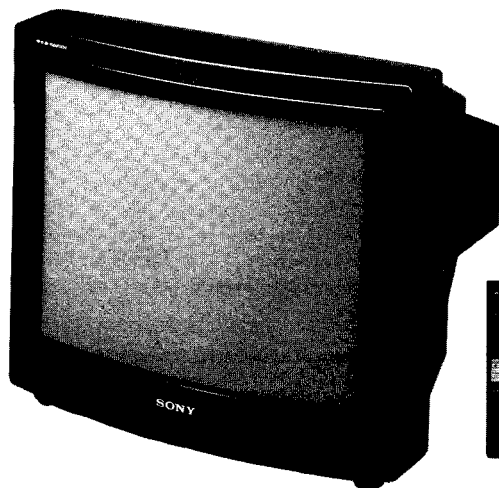
SERVICE MANUAL

KV-X25TD

RM-673

SERVICE MANUAL

AEP Model
Chassis No. SCC-B14H-A



AE-1 CHASSIS

Note: The service manuals for RM-673
have been issued separately.

MODELS OF THE SAME SERIES

KV-X25TD	KV-X21TD
KV-25XSD	KV-21XSD
KV-25XSTD	KV-21XSTD

SPECIFICATIONS

Television system	CCIR B, G and H
Color system	PAL SECAM
Stereo system	German two carrier system
Channel coverage	VHF channels E2-E12 UHF channels E21-E69 Cable TV channels S1-S20 (a total of up to 30 preselected channels)
Picture tube	Trinitron tube 110-degree deflection Approx. 63.5cm (25 inches) (Approx. 59cm picture measured diagonally)
Inputs	21-pin connector: CENELEC standard 21-pin connector: RGB input unconnected
Outputs	Headphones jack: stereo minijack External speaker terminals: 2-pin DIN Audio output jack: phonojack output level dependent upon TV setting
Power consumption	98Wh
Dimensions	Approx. 587×522×460mm (w/h/d)
Weight	Approx. 35.5kg
Supplied accessories	RM-673 Remote Commander (1) IEC designation R6 batteries (2)
Sound output	10W+10W (music power)

Design and specifications are subject to change without notice.



SONY®

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SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK
⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED
VIEWS AND IN THE PARTS LIST ARE CRITICAL TO
SAFE OPERATION. REPLACE THESE COMPONENTS
WITH SONY PARTS WHOSE PART NUMBERS APPEAR
AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS
PUBLISHED BY SONY.

SECTION 1 GENERAL

Note) The layout, etc., will be slightly different from the operating instructions packed with the units.

1-1. FIRST OF ALL

- 1 Connect the aerial to the Γ socket on the rear of the set.
This socket receives the standard 75-ohm aerial plug.

- 2 Plug in the set.

- 3 Tune in the available channels.

Use the buttons inside the front panel. To open the panel, press the center.

To tune in all channels automatically :

- 1 Press \diamond (Preset)
- 2 Press PROGR to select the program position from which tuning is to start.
- 3 Press \curvearrowright (Auto programing).

The channels will be tuned in and memorized in consecutive positions, beginning from the program position selected in step 2.

When tuning has been completed, the set returns to the position where tuning began.

To tune in a channel in any desired program position.

(e. g. the position with the same number as the channel) :

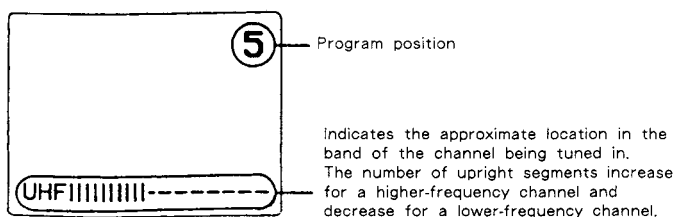
- 1 Press \diamond (Preset).
- 2 Press PROGR to select the desired program position.
- 3 Press C (Clear).
- 4 Press \boxplus (Search) repeatedly until the desired channel appears.
- 5 Repeat steps 2 to 4 for all channels, if required.
- 6 Press \diamond (Preset) again.

If the set is to be used in an area with poor reception, preset the program numbers between 1 and 19 for TV program use.

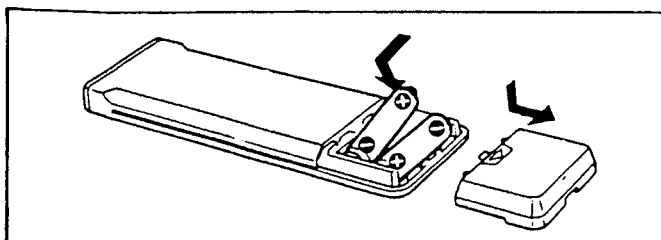
To have the unused program positions skipped when PROGR+ or PROGR- is pressed

- 1 Press \diamond (Preset).
- 2 Press PROGR to select the unused position.
- 3 Press C (Clear).
- 4 Repeat steps 2 and 3 for all unused position.
- 5 Press \diamond (Preset) again.

On-screen display while tuning

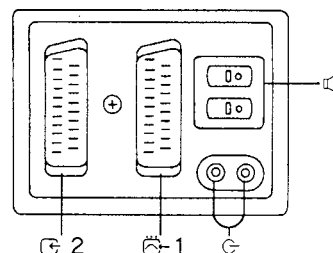


- 4 Insert two R6 batteries checking the correct polarity.



1-2. CONNECTING OTHER EQUIPMENT

connectors on rear set



L • G/S	Left external speaker terminal (2-pin DIN)	Connect to external speakers. The TV speakers will be disconnected.
R/D/D	Right external speaker terminal (2-pin DIN)	Speaker 8-16 Ω .
R/D/D	Right audio output jack (Phono jack)	Connect to audio equipment. When only using the phono-jack, two loudspeaker plugs, (DIN 41529) should be inserted into the external speaker terminals so that the TV speaker output is switched off.
L/G/S	Left audio output jack (Phono jack)	
1	21-pin connector (CENELEC standard)	Connect to a VTR micro computer, etc. The picture of the TV channel being received is always output. The picture of 2 can be watched while recording a TV program with the VTR connected to 1.
2	21-pin connector (without RGB input)	Connected to a second VTR. The picture displayed on the screen is always output. The picture of 1 can be recorded with the VTR connected to 2 while monitoring the picture.

VTR operation using the supplied Commander

Remote operation of the VTR (8mm only) is limited to the features and functions of the VTR.

For further details, refer to the VTR manual.

When watching a video with the VTR connected to the connector, set the channel for the video to the program number 0 or any empty channel between 20 and 29.

Note

Move the VTR away from the TV, if the picture or sound is distorted.

21 Pin Connector (①-1, ②-2)

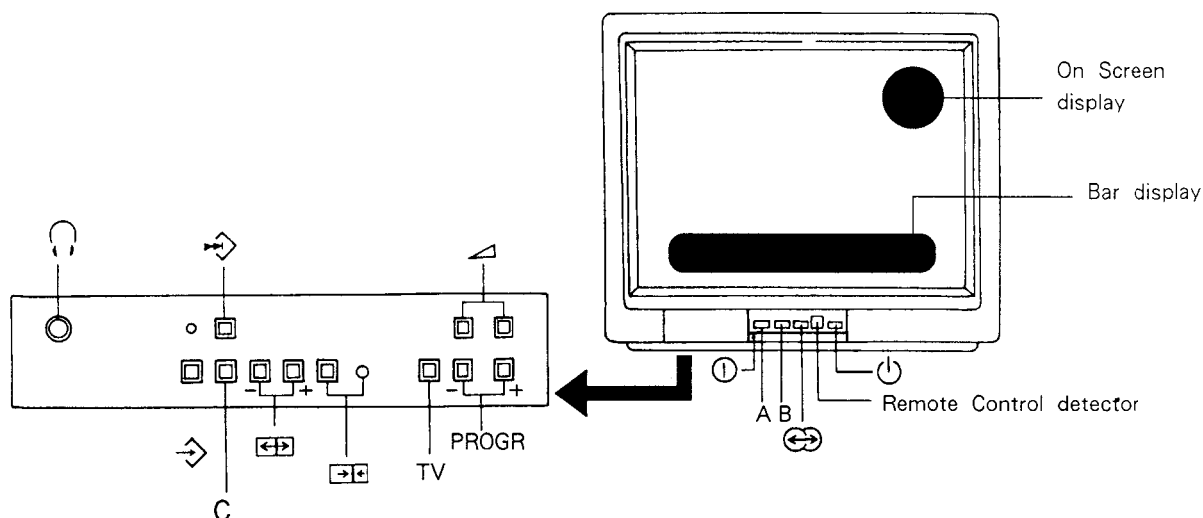
Pin No	1	2	Signal	Signal level
1	○	○	Audio output B (right)	Standard level : 0.5 Vrms Output impedance : Less than 1 k ohm*
2	○	○	Audio input B (right)	Standard level : 0.5 Vrms Input impedance : More than 10 k ohms*
3	○	○	Audio output A (left)	Standard level : 0.5 Vrms Output impedance : Less than 1 k ohm*
4	○	○	Ground (audio)	
5	○	○	Ground (blue)	
6	○	○	Audio input A (left)	Standard level : 0.5 Vrms Input impedance : More than 10 k ohms*
7	○	●	Blue input	0.7 V \pm 2 dB, 75 ohms, positive
8	○	○	Function select (AV control)	High state (9.5–12 V) : Part mode Low state (0–2 V) : TV mode Input impedance : More than 10 k ohms Input capacitance : Less than 2 nF
9	○	○	Ground (green)	
10	○	○	Open	
11	○	●	Green/Green with sync input	Green signal : 0.7 V \pm 2 dB, 75 ohms, positive Green with sync signal : 1 V \pm 2 dB, 75 ohms, positive
12	○	○	Open	
13	○	○	Ground (red)	
14	○	○	Ground (blanking)	
15	○	●	Red input	(Same as Pin 7)
16	○	●	Blanking input (Y's signal)	High state (1–3 V) Low state (0–0.4 V) Input impedance : 75 ohms
17	○	○	Ground (video output)	
18	○	○	Ground (video input)	
19	○	○	Video output	1 V \pm 2 dB, 75 ohms, positive Sync : 0.3 V (–3, \pm 10 dB)
20	○	○	Video input	1 V \pm 2 dB, 75 ohms, positive Sync : 0.3 V (–3, \pm 10 dB)
21	○	○	Common ground (plug, shield)	

○ connected

● unconnected (open)

* at 20 Hz–20 kHz

1-3. FUNCTION OF CONTROLS



On the set

On-screen display

Indicates program numbers and input modes.

Bar display

Indicates the level of volume, color, brightness, contrast, bass, treble and balance.

Note on function.

When the volume is at the minimum setting the balance function will not operate.

① Power switch

To cut off the mains power completely, press this switch. Depress the power switch fully to ensure correct operation of the set.

Note

To ensure correct operation, push the switch in fully.

⏻ standby indicator

Lights up brightly when the set is in the standby mode.

Note

If the main power is turned off when in standby mode, the standby indicator will take 2 to 6 seconds to go off.

⊞ space sound indicator

Lights up when ⊞ on the Remote Commander is pressed.

A/B indicators

One of them lights during bilingual broadcast. (Choose A or B with the Remote Commander.)

Both light during stereo broadcast. In AV mode, A lights for left channel, B for right channel, or A and B for both channels.

Remote control detector

Point the Remote Commander towards this detector.

Inside the panel

🎧 headphones jack (stereo minijack)

⊞ SEARCH buttons

Press to fine tune a weak channel manually, if required. When ⊞ (SEARCH) pressed, the ⊞ indicator (AFT) goes off and the AFT circuit does not function on the selected channel.

To restore the AFT circuit on this channel, press ⊞ (AFT) so that the indicator lights up.

⊞ AFT button and indicator

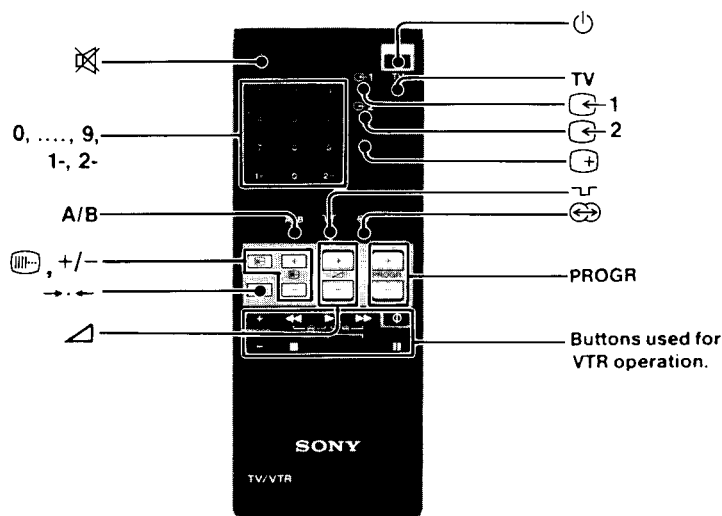
Normally, press ⊞ (AFT) so that the indicator lights up.

The AFT circuit automatically fine tunes the channel for the best possible picture.

volume buttons

PROGR+, PROGR- program scan buttons

FUNCTION OF CONTROLS



On the Remote Commander

To operate the Commander, point it toward the remote control detector.

☒ mute button

0, ..., 9, 1-, 2- buttons

To tune into :
program 15, press 1- and 5
program 25, press 2- and 5

A/B button

Press to select the language in a bilingual broadcast, or to select the channel in AV mode.

▢ +/— analog select buttons

Press ▢
● will appear on the screen. Adjust by pressing + or —.
Press ▢ again and adjust ● (color), then ☼ (brightness),
♫ (bass), \$ (treble) and ▽ (balance).

→ • ← reset button

Press to reset color and contrast and brightness to factory-set levels.

⏻ standby button

Press to change to the standby mode. Use this button to turn off the set for short periods of time.
To turn on the set, press TV or the program number; there will be a slight delay before the picture is restored.

If the main power is turned off when in standby mode, the standby indicator will take 2 to 6 seconds to go off.

TV button

Press to change to the TV mode from the standby or input modes.

☐ 1 input button

Press to view the input picture coming in through the ☐-1 connector.

"☐ 1" lights up on the screen.
Press TV or the program number to return to the TV mode.

☐ 2 input button

Press to view the input picture coming in through the ☐-2 connector.

"☐ 2" lights up on the screen.
Press TV or the program number to return to the TV mode.

☐ on-screen display button.

Press to make the display appear on the screen.
Press again to make them disappear.

☒ loudness button

Press to emphasize high and low notes.

☐ space sound button

Press to obtain special acoustic effects.

▴ volume buttons

PROGR program scan buttons

Note

Buttons not referred to on this page or next page do not operate.

1-4. VIEWING TELETEXT

To view the teletext service, use the Remote Commander. The buttons for teletext operation are indicated in green.

Operation

- 1 Select the TV channel for the desired teletext service.
- 2 Press (TEXT/MIX) to display the teletext service. Once has been pressed, the TV channel cannot be changed.
- 3 Key in the three digits for the desired page using the number buttons. If an error is made, complete the three digit sequence by keying in any digit. Then re-enter the correct page number. The requested teletext page is displayed.

To return to the TV mode, press TV on the remote commander.

The teletext service can be displayed directly from the standby mode, by pressing .

To receive the teletext service of a different TV channel.

- 1 Press TV to return to the TV mode.
- 2 Select the desired TV channel.
- 3 Press .

Note

To receive the teletext service accurately, keep inside the panel switched on during teletext operation.

To display the index page.

Press (INDEX).

If the necessary signal is not being broadcast, page 100 is displayed.

To rapidly access the next or preceding page
press (PAGE+) or (PAGE-).

To superimpose the teletext display on the TV picture.

Press twice from TV mode.

Press again to return to the TEXT display.

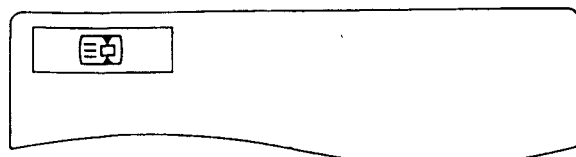
To suppress the teletext display so that the TV picture is displayed.

Press (TEXT CL).

This button can be operated from both the TEXT and MIX displays.

To prevent a teletext page (subpage) from being updated / changed.

Press HOLD. The HOLD symbol appears at the top of the screen.



To resume normal teletext reception, press .

To enlarge the teletext display.

Press .

Press once to enlarge the upper half of the display; press again to enlarge the lower half of the display; press again to return to the normal display.

To reveal concealed information such as the answers to a quiz

Press (REVEAL)

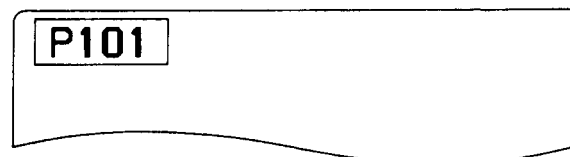
Press again to conceal the answers.

To adjust the contrast of the teletext display.

When in teletext mode, adjust by using the + or - keys adjacent to the key.

To watch the TV program while waiting for a requested page to be displayed.

- 1 Request new page.
- 2 Press to watch the TV program. The requested page number appears at the top left of the screen. When the requested page has been captured, the page number is displayed in the top left hand corner of the screen.



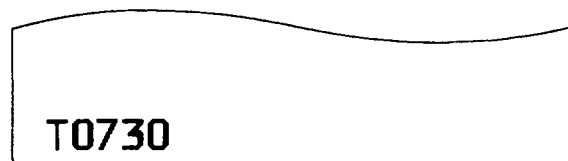
To view this page, press .

To have a requested page displayed at a predetermined time.

- 1 Request a time coded page (e. g. alarm page).
- 2 Press (TP ON). "T****" will appear at the bottom of the screen.



- 3 Enter your request time with the number buttons, using four digits. For example, 07 : 30.



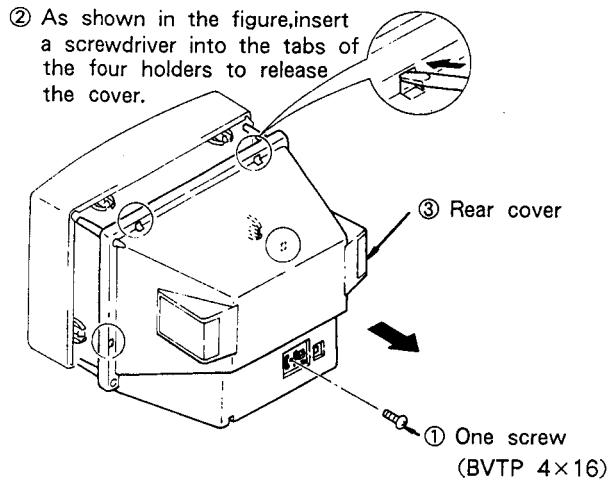
To watch the TV program until the requested time, press . At the requested time, the page number will be displayed at the bottom of the screen.

To view this page, press .

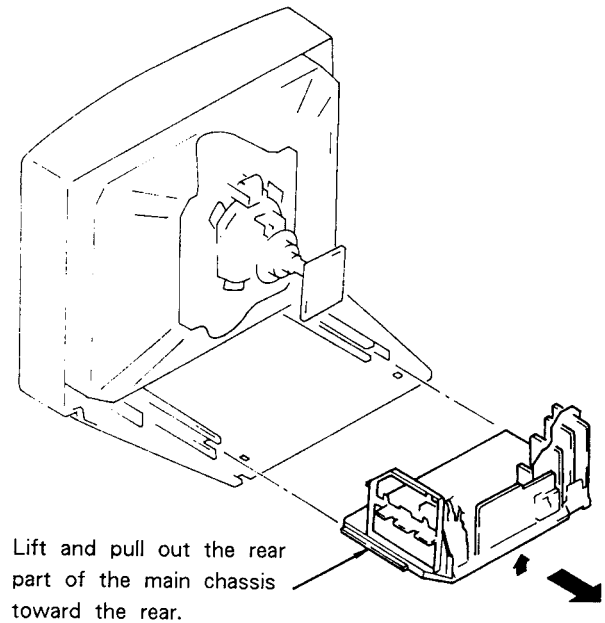
To cancel the request, first ensure that the teletext page is displayed, then press (TP OFF).

SECTION 2 DISASSEMBLY

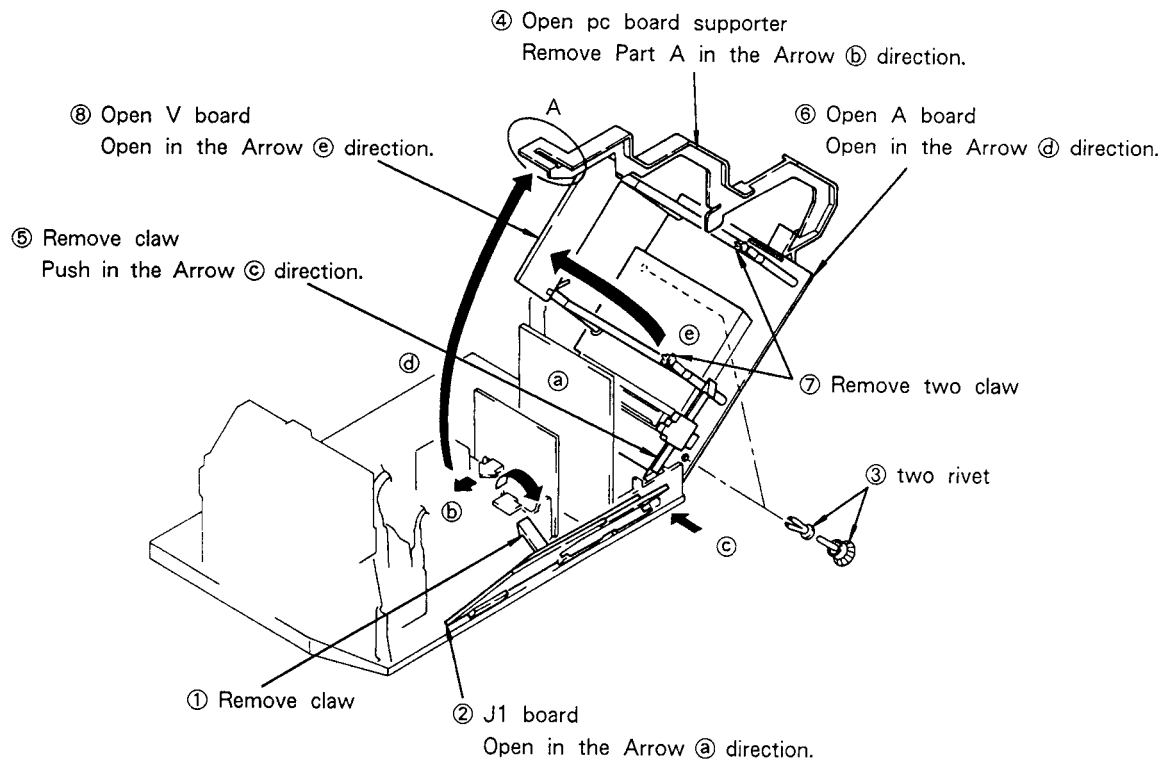
2-1. REAR COVER REMOVAL



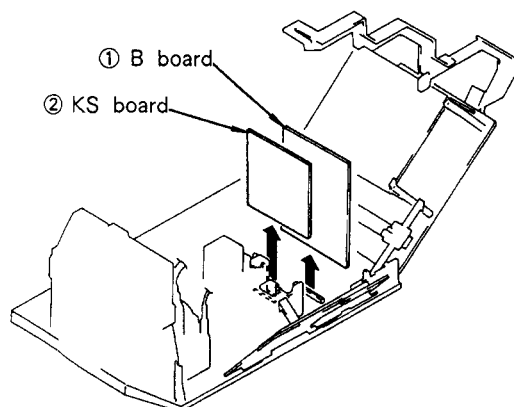
2-2. CHASSIS ASSY REMOVAL



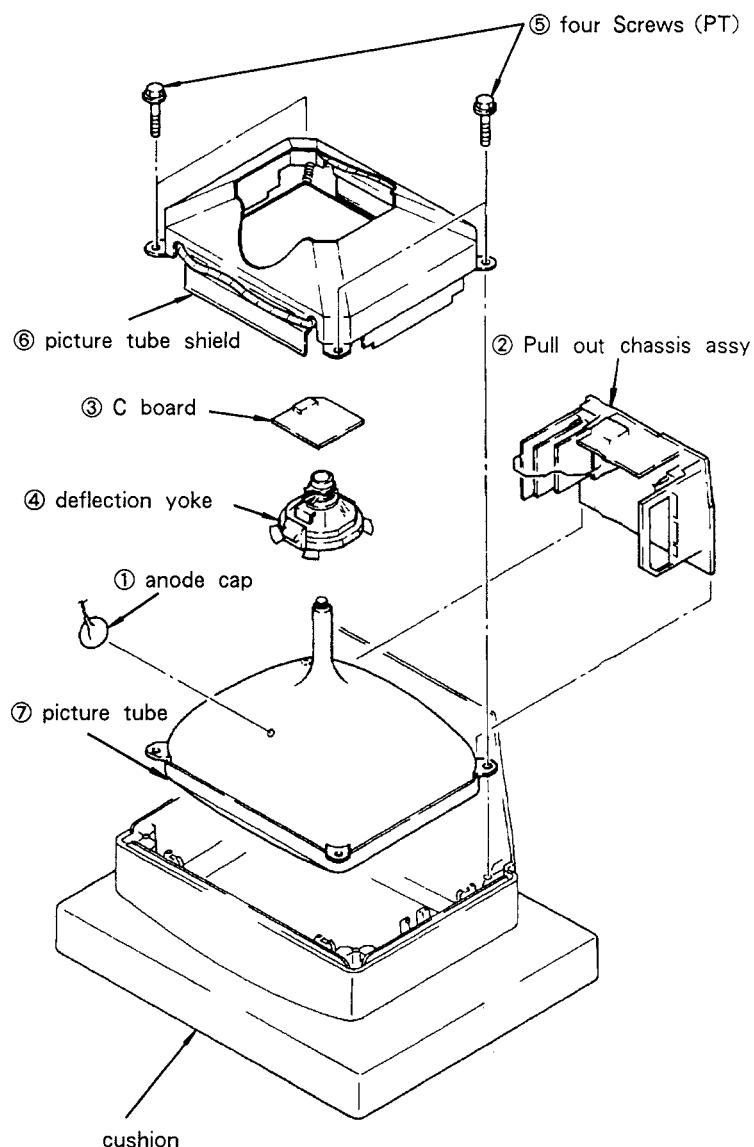
2-3. J1,A, AND V BOARD REMOVAL



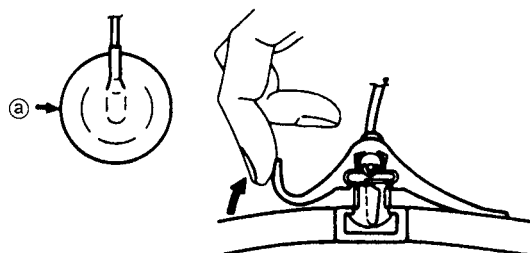
2-4. KS AND B BOARDS REMOVAL



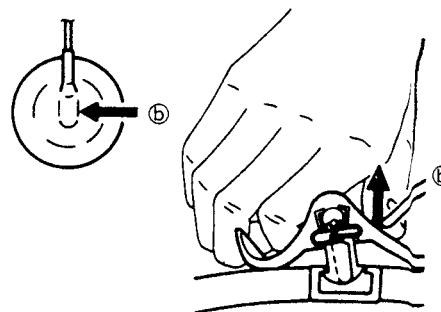
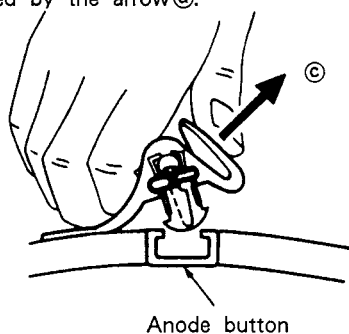
2-5. PICTURE TUBE REMOVAL



● Removing Procedures

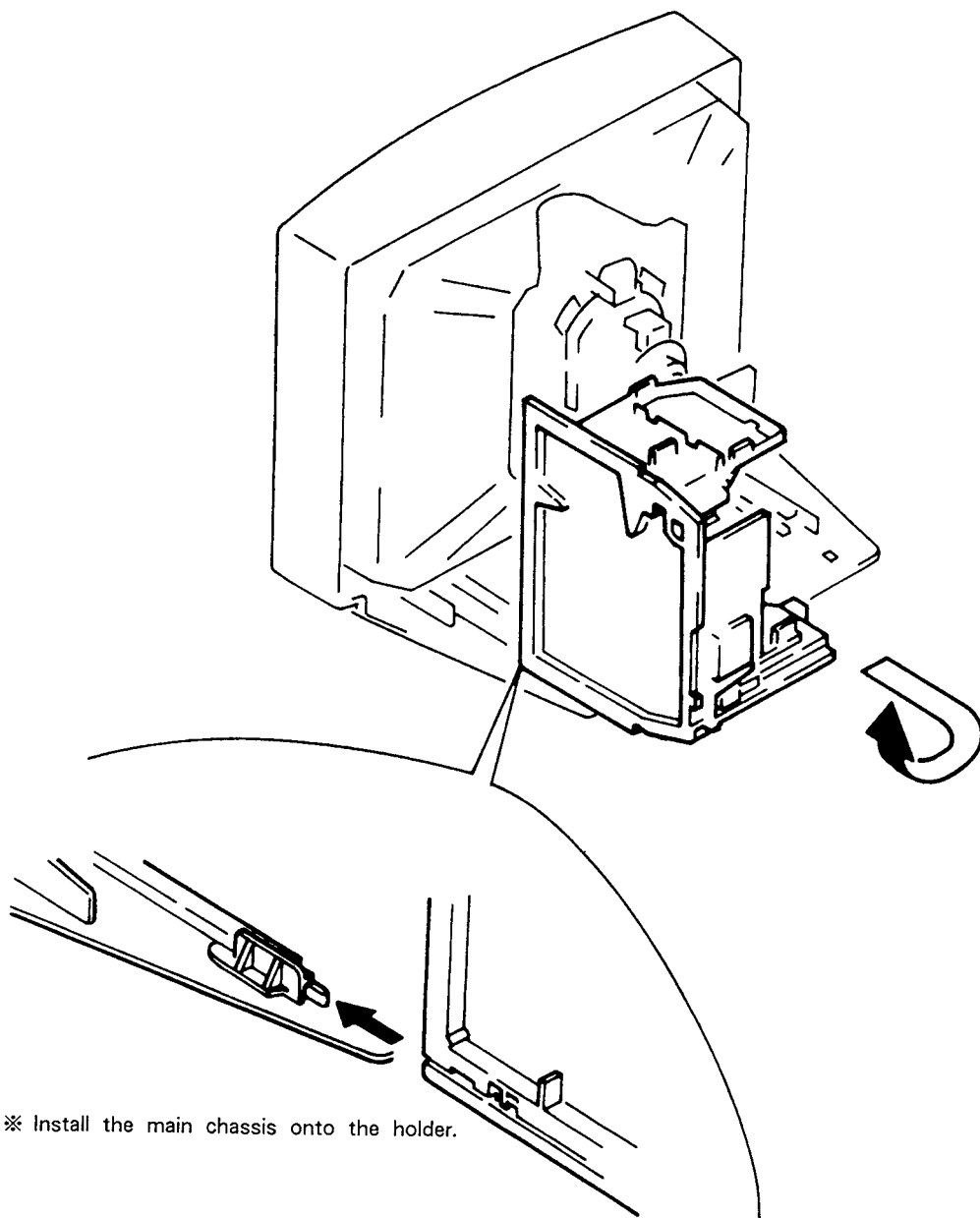


- ① Turn up one side of the rubber cap in the direction indicated by the arrow ③.



- ② Using a thumb, pull up the rubber cap firmly in the direction indicated by the arrow ③.
- ③ When one side of the rubber cap is separated from the anode button, the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ③.

2-6. SERVICE POSITION



※ Install the main chassis onto the holder.

SECTION 3 SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted :

- ⓪ CONTRAST control 80% (or Normal by Commander)
 ✕ BRIGHTNESS control 50%

Perform the adjustments in order as follows :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color Bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope

3-1. BEAM LANDING

1. Input a raster signal with the pattern generator.
 CONTRAST } normal
 BRIGHTNESS }
2. Turn the raster signal of the pattern generator to red.
3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides, evenly.
 (Fig. 3-1 ~ 3-3)
4. Move the deflection yoke forward, and adjust so that the entire screen becomes red.(Fig. 3-1)
5. Switch over the raster signal to blue and green and confirm the condition.
6. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
7. When landing at the corners is not right, adjust by using the magnet.(Fig. 3-4)

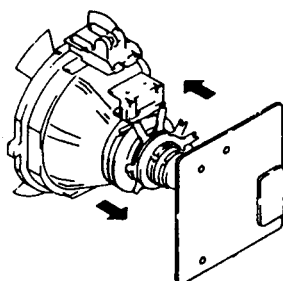


Fig.3-1

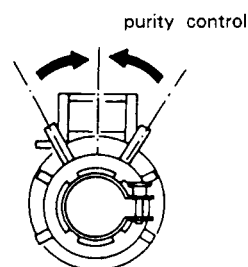


Fig.3-2

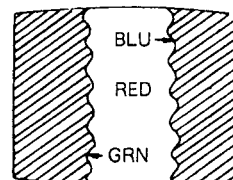


Fig.3-3

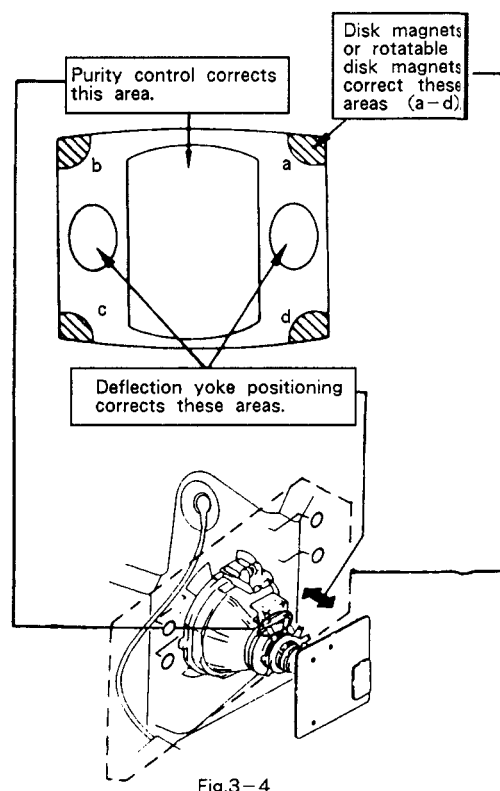


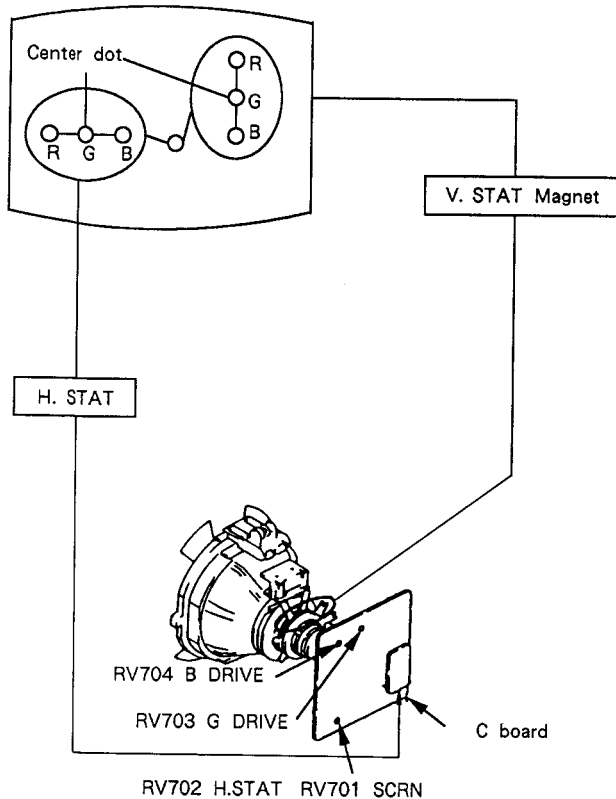
Fig.3-4

3-2. CONVERGENCE

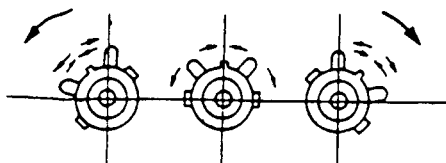
Preparation :

- Before starting, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

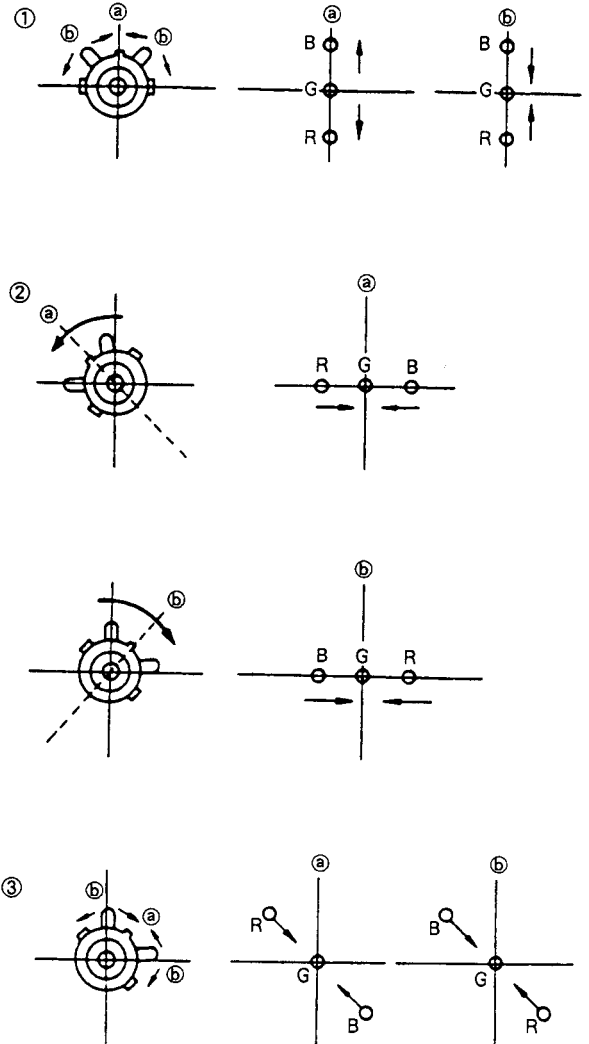
(1) Horizontal and Vertical Static Convergence



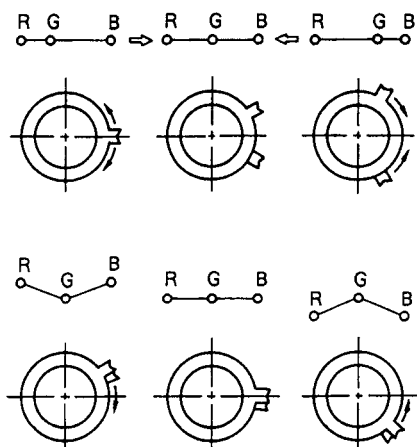
1. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen, (Horizontal movement)
 2. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen, (Vertical movement)
 3. If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below. (In this case, H. STAT VR and V. STAT magnet effect each other.)
- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.



4. When the V. STAT magnet is moved in the direction of arrow (a) and (b), red, green and blue dots move as shown below.

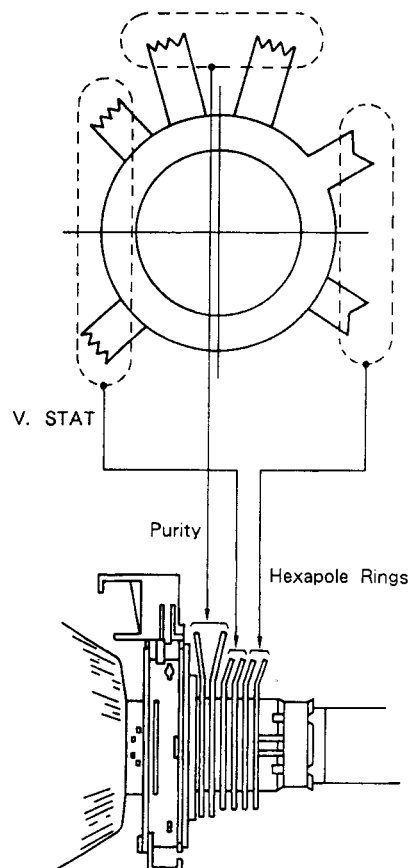


● Operation of Hexapole Ringed Magnet



The respective dot operations resulting from the operation of each magnet are not completely independent, so be sure to perform adjustment while tracking.

Use the H, STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).



(3) Dynamic Convergence Adjustment

Preparation :

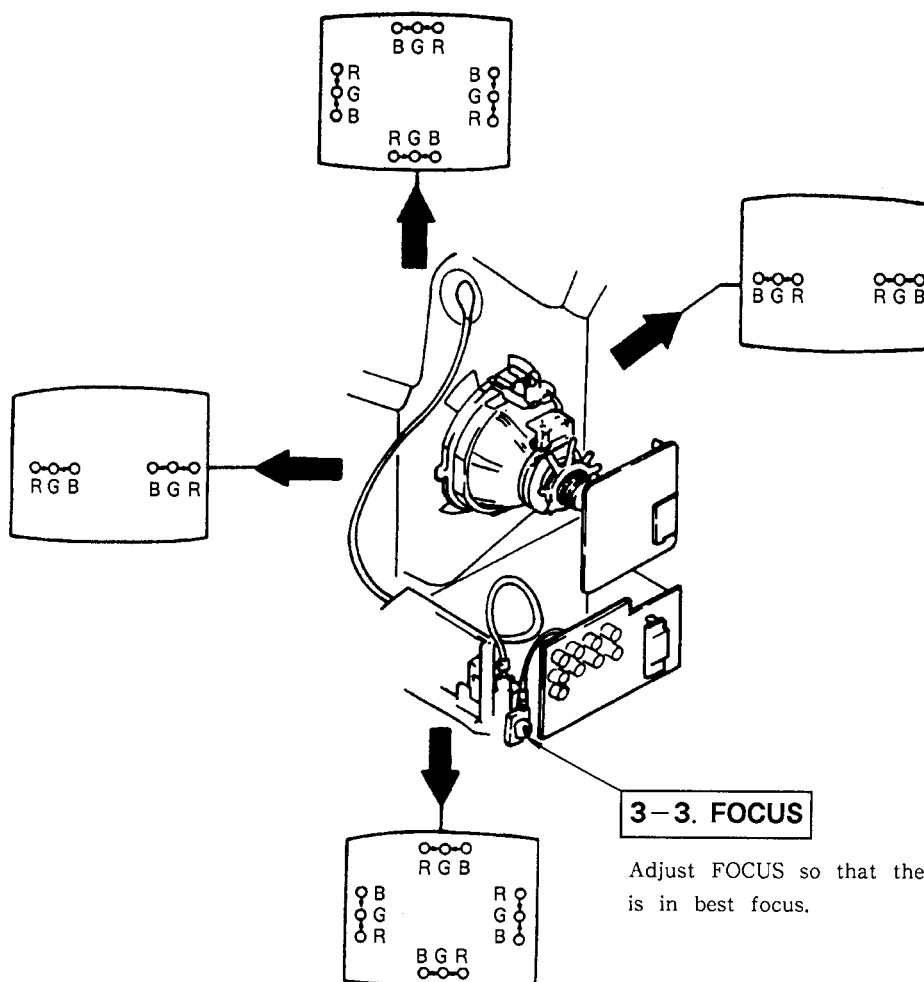
● Before starting, perform Horizontal and Vertical Static Convergence Adjustment..

1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.

3. Move the deflection yoke for best convergence as shown below.

4. Tighten the deflection yoke screw.

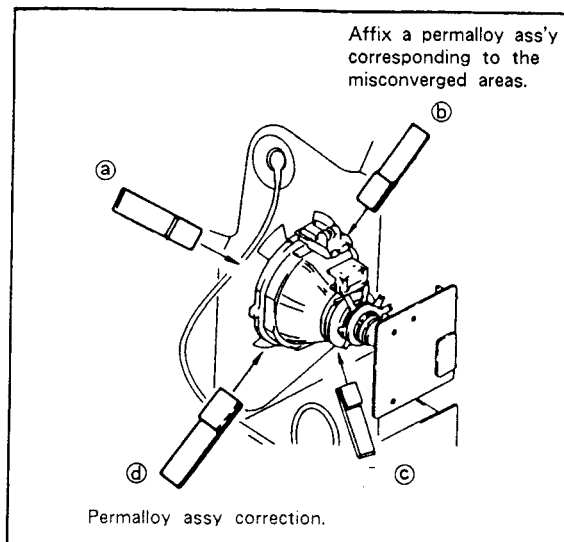
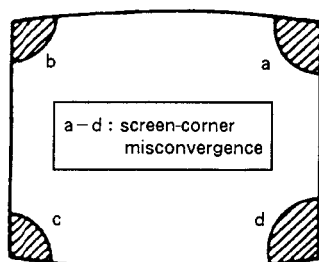
5. Install the deflection yoke spacers.



3-3. FOCUS

Adjust FOCUS so that the whole screen is in best focus.

(4) Screen - corner Convergence



3-4. WHITE BALANCE

(Screen (G2) Setting)

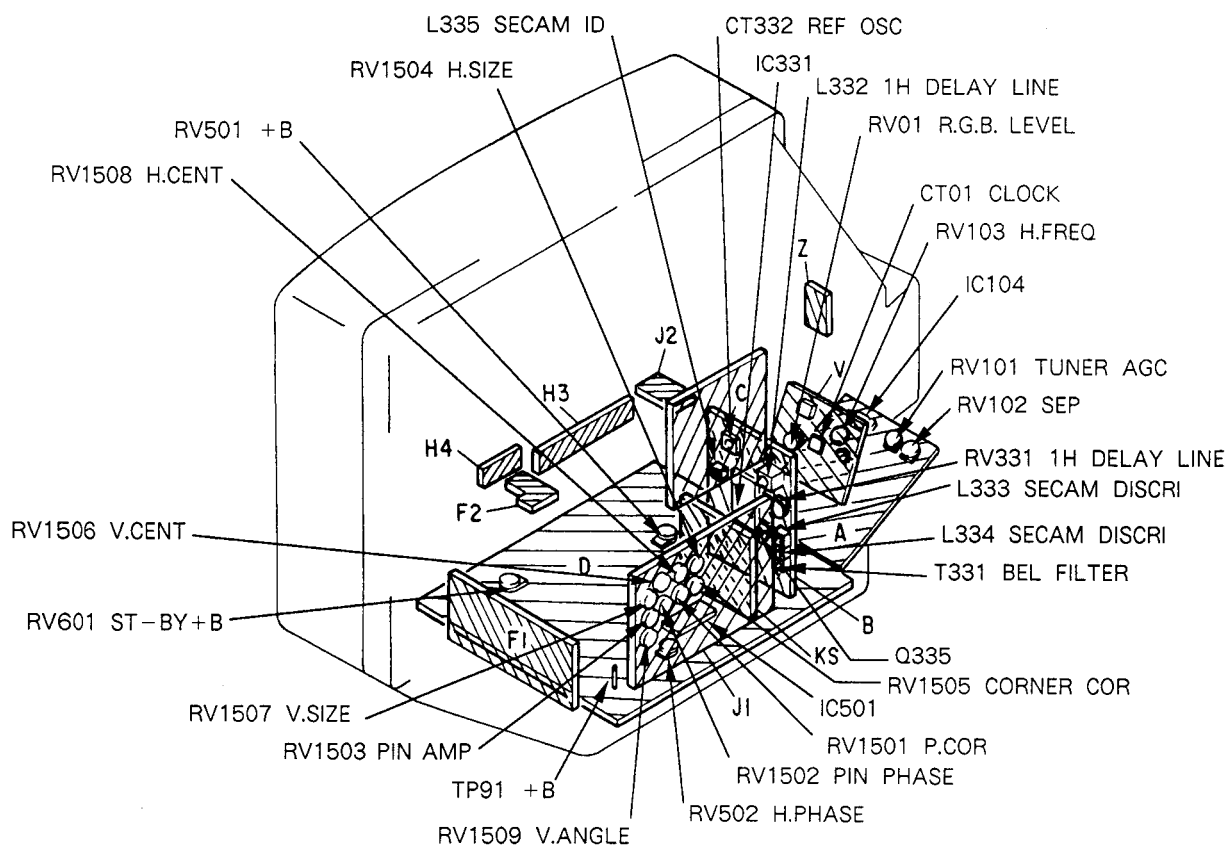
1. Input dot signals from the pattern generator.
2. Set the picture BRIGHTNESS control to the minimum level.
3. Apply 170 V dc to the cathodes of R, G, and B from an external power source.
4. While watching the picture, adjust the G2 volume (RV701) immediately before the fly-back line disappears.

(White Balance Adjustment)

1. Input all-white signals from the pattern generator.
2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
3. Adjust the white balance using RV704 (B DRIVE) and RV703 (G DRIVE).

In the following adjustments, the CONTRAST COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

SECTION 4 CIRCUIT ADJUSTMENTS



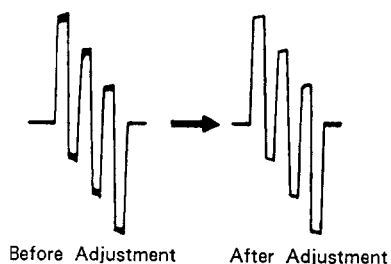
4-1. B BOARD ADJUSTMENTS

REF OSC Adjustment (CT332)

1. Input a PAL COLOR BAR pattern.
2. Short circuit between pin ⑩ of IC331 and ground.
3. Adjust CT332 to obtain color synchronization.
4. Remove a jumper wire from IC331.

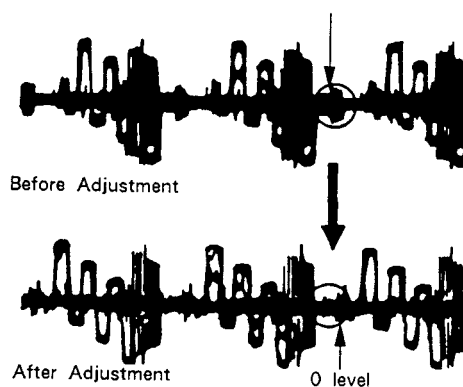
1H DELAY LINE Adjustment (L332, RV331)

1. Input a PAL COLOR BAR pattern.
2. Connect the oscilloscope to pin ③ (B-Y) of IC331 and observe the waveform of the H block on the oscilloscope.
3. Adjust L332 to minimize the double waveform outline.



4. Input a PAL TEST COLOR BAR pattern.
5. Rotate the RV331 control and adjust till the ANT PAL of the waveform matches the 0 level.

This part matches the 0 level.



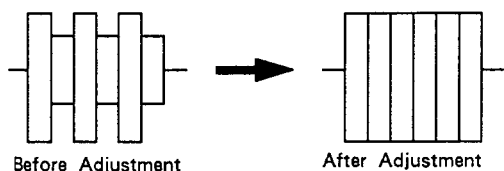
6. L332 and RV331 affect each other. Repeat till the conditions of both meet.

SECAM ID Adjustment (L335)

1. Input SECAM COLOR BAR signal.
2. Connect a Digital Multi-meter at pin ⑫ of IC331.
3. Adjust L335 so that the indicator goes up to the maximum.

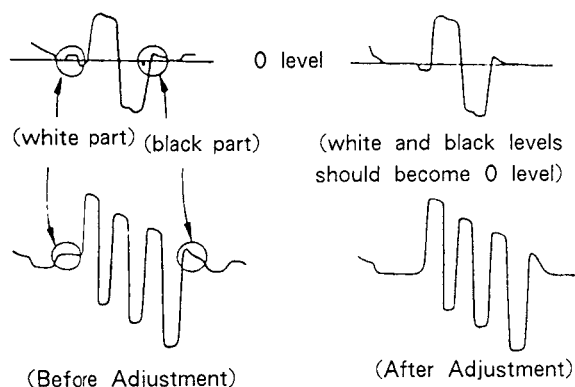
BELL FILTER Adjustment (T331)

1. Input SECAM COLOR BAR pattern.
2. Connect an oscilloscope to the emitter of Q335.
3. Adjust T331 so that the waveform becomes flat.



SECAM DISCRI Adjustment (L333, L334)

1. Input SECAM COLOR BAR pattern.
2. Connect an oscilloscope at pin ① of IC331.
3. Adjust L333 so that white and black part of the waveform of pin ① becomes 0 level.
4. Connect an oscilloscope at pin ③ of IC331.
5. Adjust L334 so that white and black part of the waveform of pin ③ becomes 0 level.



4-2. D BOARD ADJUSTMENTS

+B Adjustment (RV501)

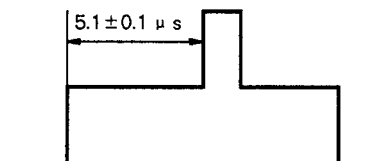
1. Connect a Digital Multimeter to TP91.
2. Adjust RV501 so that the voltage becomes 135 ± 0.2 V.

ST-BY +B Adjustment (RV601)

1. Set up ϕ standby (Remote Commander) mode.
2. Connect the digital multimeter to TP91.
3. Adjust RV601 so that the voltage becomes 135 ± 3 V.
4. Release the ϕ standby (Remote Commander) mode.

H. PHASE Adjustment (RV502)

1. Input the PAL TEST COLOR BAR pattern.
2. Set the CONTRAST and BRIGHTNESS controls to the standard positions.
3. Set RV1508 (H. CENT) to the mechanical center position.
4. Connect an oscilloscope to pin ⑪ (SPC OUT) of IC501.
5. Rotate RV502 and adjust Block T to $5.1 \pm 0.1 \mu s$.



4-3. A BOARD ADJUSTMENTS

TUNER AGC Adjustment (RV101)

1. Tune in an off-air signal.
2. Adjust RV101 so that snow-noise and cross-modulation just disappear from the picture.

STEREO SEPARATION Adjustment (RV102)

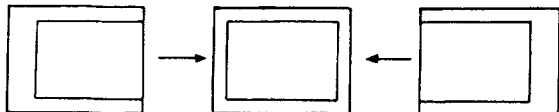
1. Input stereo signal (L-CH 1kHz, R-CH 400Hz)
2. Check the stereo indicator.
3. Connect an oscilloscope to the pin ① (L) of CNA11 through band pass filter of 1kHz.
4. Adjust RV102 so that 1kHz voltage goes down to the minimum.

H. FREQ. Adjustment (RV103)

1. Input PAL COLOR pattern.
2. Short circuit between pin ⑫ of IC104 and ground.
3. Connect a frequency counter to the pin ⑥ of IC104 through a probe of 10:1.
4. Adjust RV103 so that H. frequency becomes $15,625 \pm 50$ Hz.

4-4. J1 BOARD ADJUSTMENTS

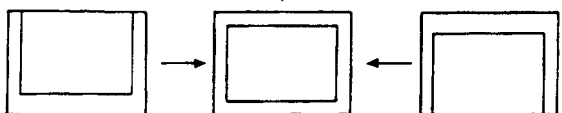
RV1508
H. CENT (HORIZONTAL CENTER)



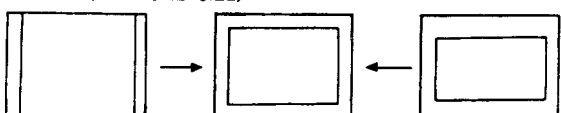
RV1504
H. SIZE (HORIZONTAL SIZE)



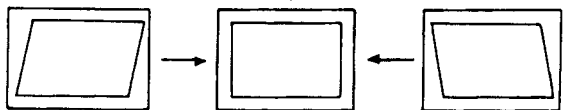
RV1506
V. CENT (VERTICAL CENTER)



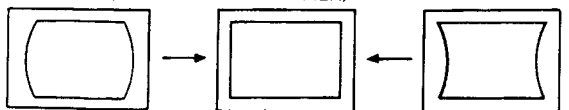
RV1507
V. SIZE (VERTICAL SIZE)



RV1509
V. ANGLE (VERTICAL ANGLE)



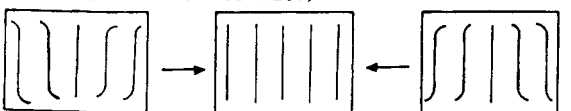
RV1503
PIN AMP (PINCUSHION AMPLIFIER)



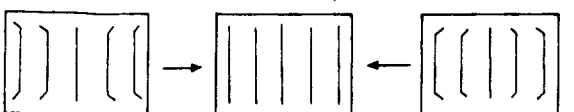
RV1502
PIN PHASE (PINCUSHION PHASE)



RV1501
P. COR (PINCUSHION CORRECT)



RV1505
CORNER COR (CORNER CORRECT)



4-5. V BOARD ADJUSTMENTS

Clock Adjustment (CT01)

1. Disconnect the V-I connector.
2. Set up the TELE TEXT mode.
3. Adjust CT01 to stop pictures from scrolling.

RGB Level Adjustment (RV01)

1. Set PICTURE to maximum.
2. Adjust RV01 till the RGB output becomes 0.65V.

4-6. SUB ADJUSTMENTS

SUB BRIGHTNESS Adjustment

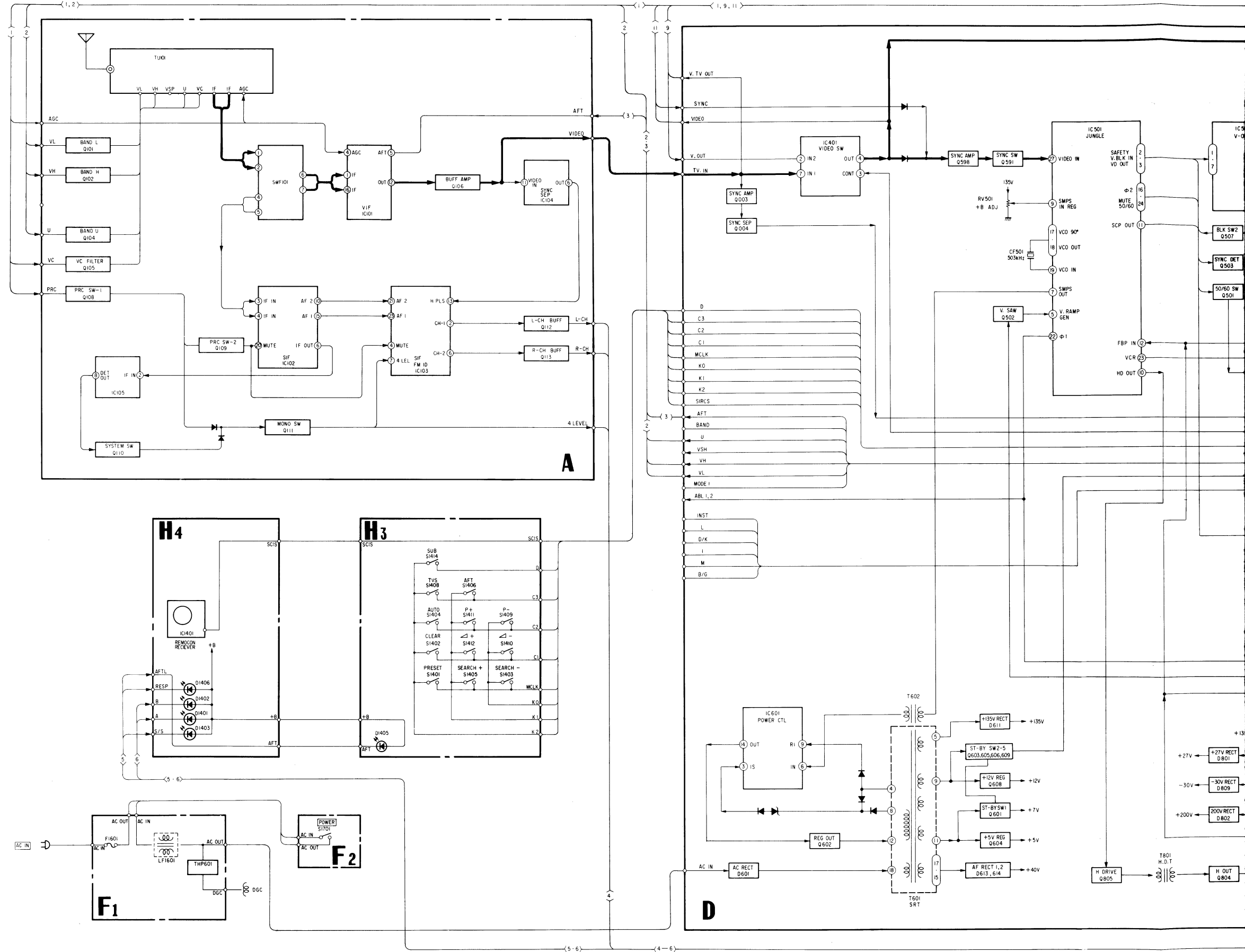
1. Receive and display a TEST COLOR BAR pattern.
2. Push → • ← on the remote commander to invoke the normal state.
3. Turn off the power supply.
4. Turn on the power supply while pushing the SUB button (S1414). (SUB mode is invoked.)
5. Reduce the ● CONTRAST to the minimum level.
6. Adjust the ✕ BRIGHTNESS control until the 0 IRE of the gray scale becomes completely cut off, and the 20 IRE becomes barely luminous.
7. Push the AFT button. (SUB mode is cleared)

Where no TEST COLOR BAR pattern is available.

1. Display a COLOR BAR pattern.
2. Push → • ← on the remote commander to invoke the normal state.
Set the ● COLOR to normal mode.
Steps 3~5 are the same as above.
3. 20 IRE is close to blue, so adjust the ✕ BRIGHTNESS control till blue is faintly luminous.
4. Same as Step 7 above.
5. Push → • ← on the remote commander to invoke the normal state.
- * When Step 4 is executed correctly, S (SUB mode) is displayed at the upper right of the display. As S is displayed only for 30 seconds, perform the adjustment within 30 seconds, or repeat from Step 4.

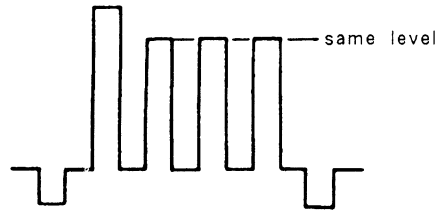
SECTION 5 DIAGRAMS

5-1. BLOCK DIAGRAM

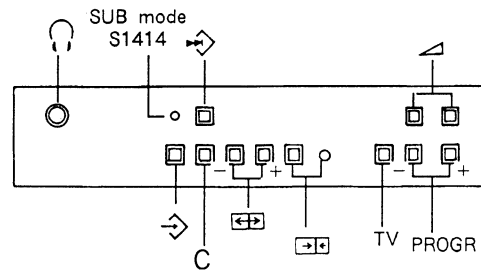


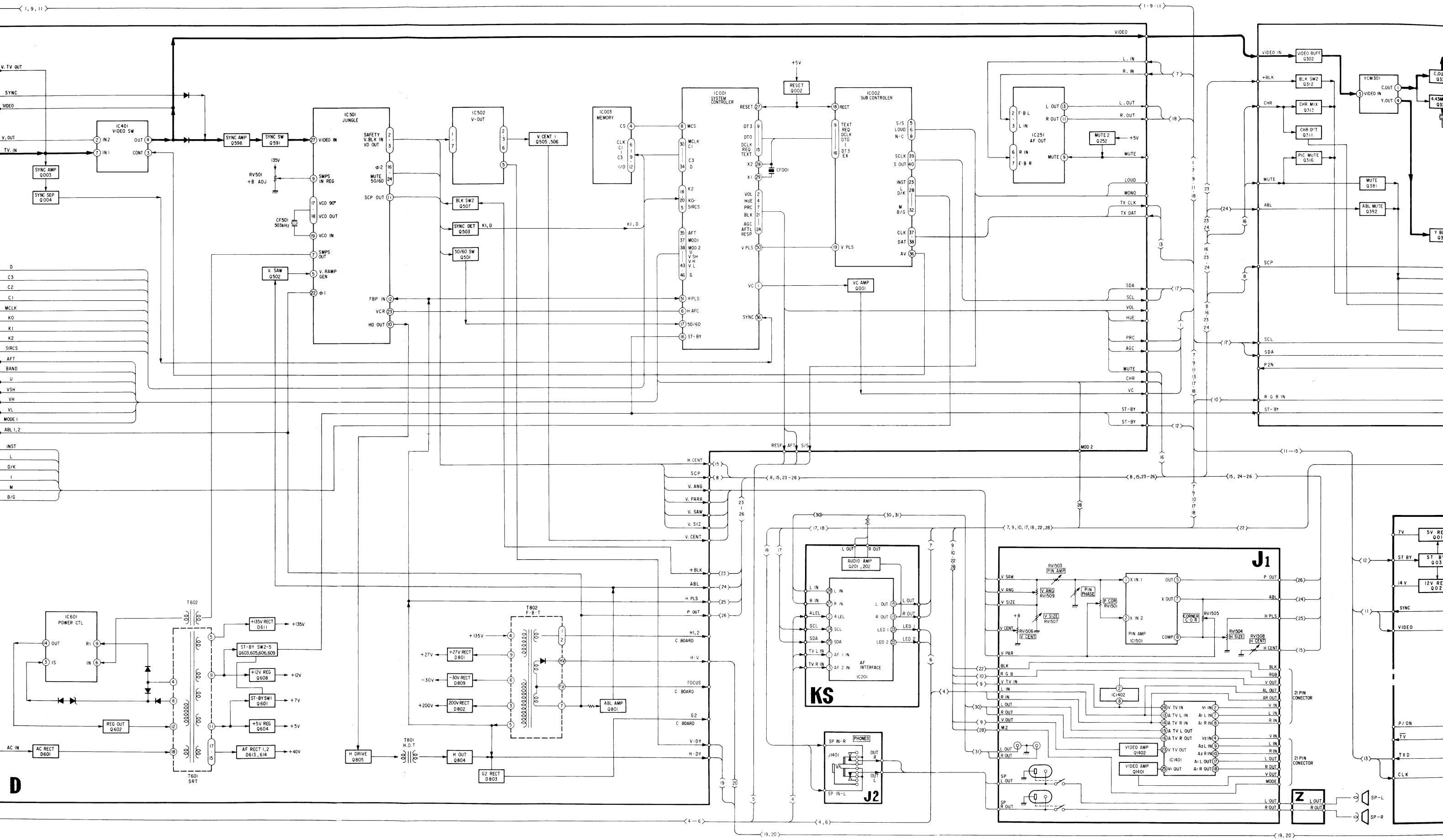
SUB COLOR Adjustment

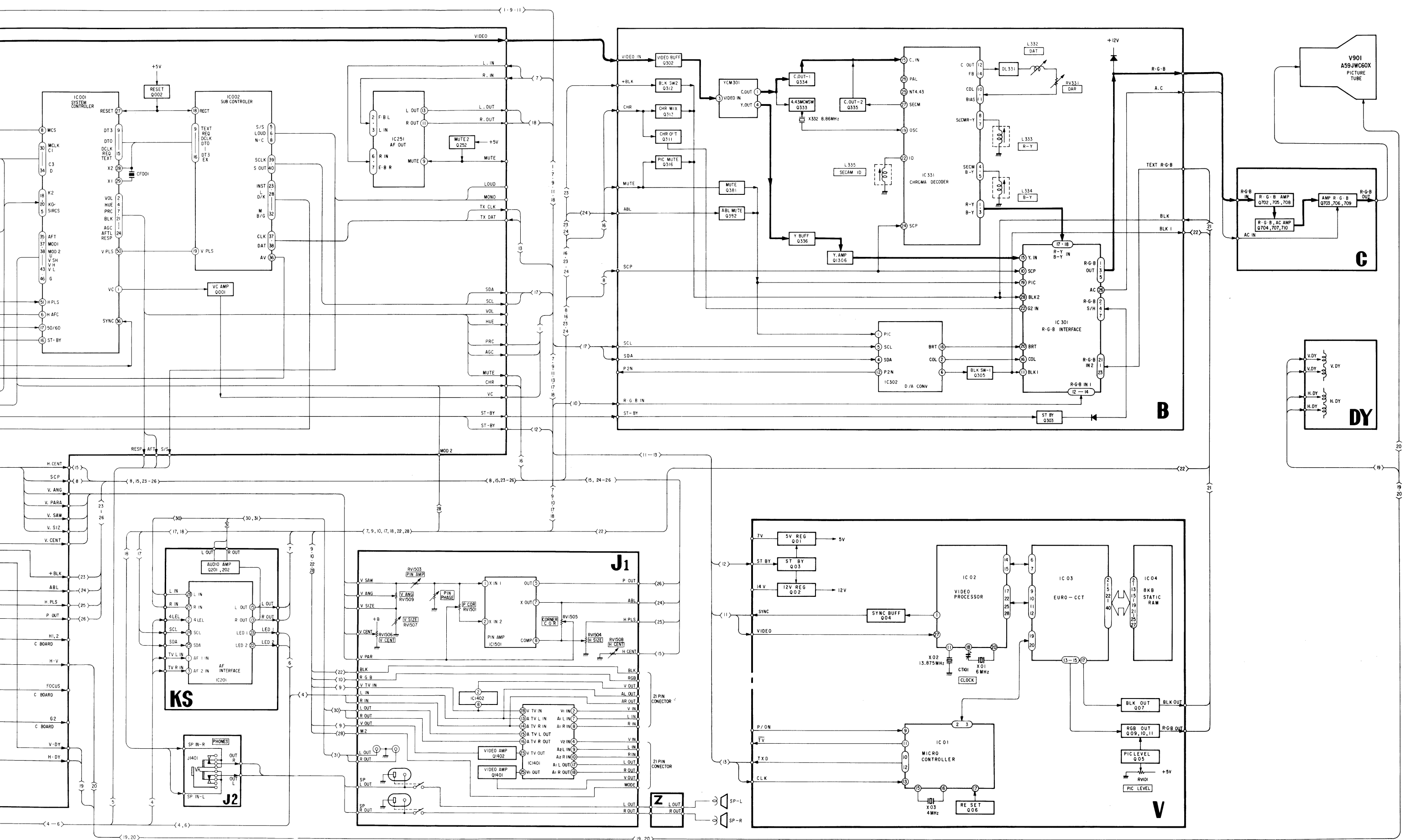
1. Display a COLOR BAR pattern.
2. Push → ← on the remote commander to invoke the normal state.
3. Turn off the power supply.
4. Turn on the power supply while pushing the SUB button (S1414). (SUB mode is invoked.)
5. Adjust the COLOR control until the B out (pin ② of CNC72 connector on C board) waveform becomes as shown below.
6. Push the AFT button.(SUB mode is cleared.)



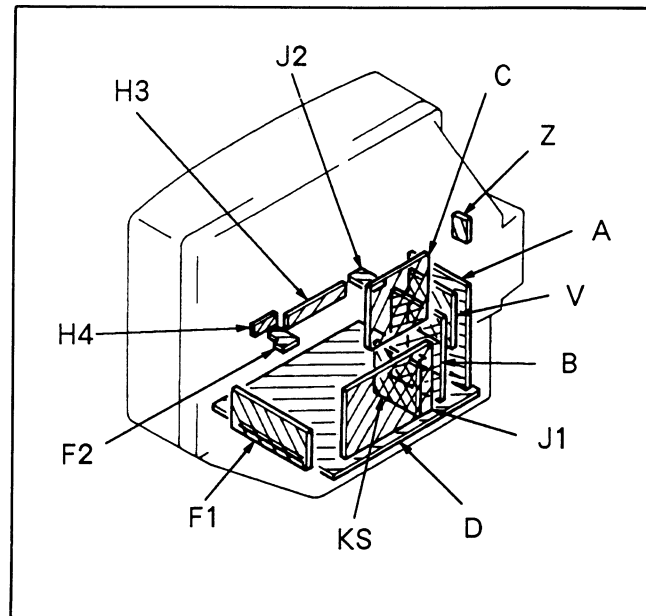
* When Step 4 is executed correctly, S (SUB mode) is displayed at the upper right of the display. As S (SUB mode) is displayed only for 30 seconds, perform the adjustment with 30 seconds, or repeat from Step 4.







5-2. CIRCUIT BOARDS LOCATION



Note:

- All capacitors are in μF unless otherwise noted. $\text{pF}:\mu\text{F}$ 50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power is as follows.

Pitch: 5mm
Rating electrical power: $1/4\text{W}$

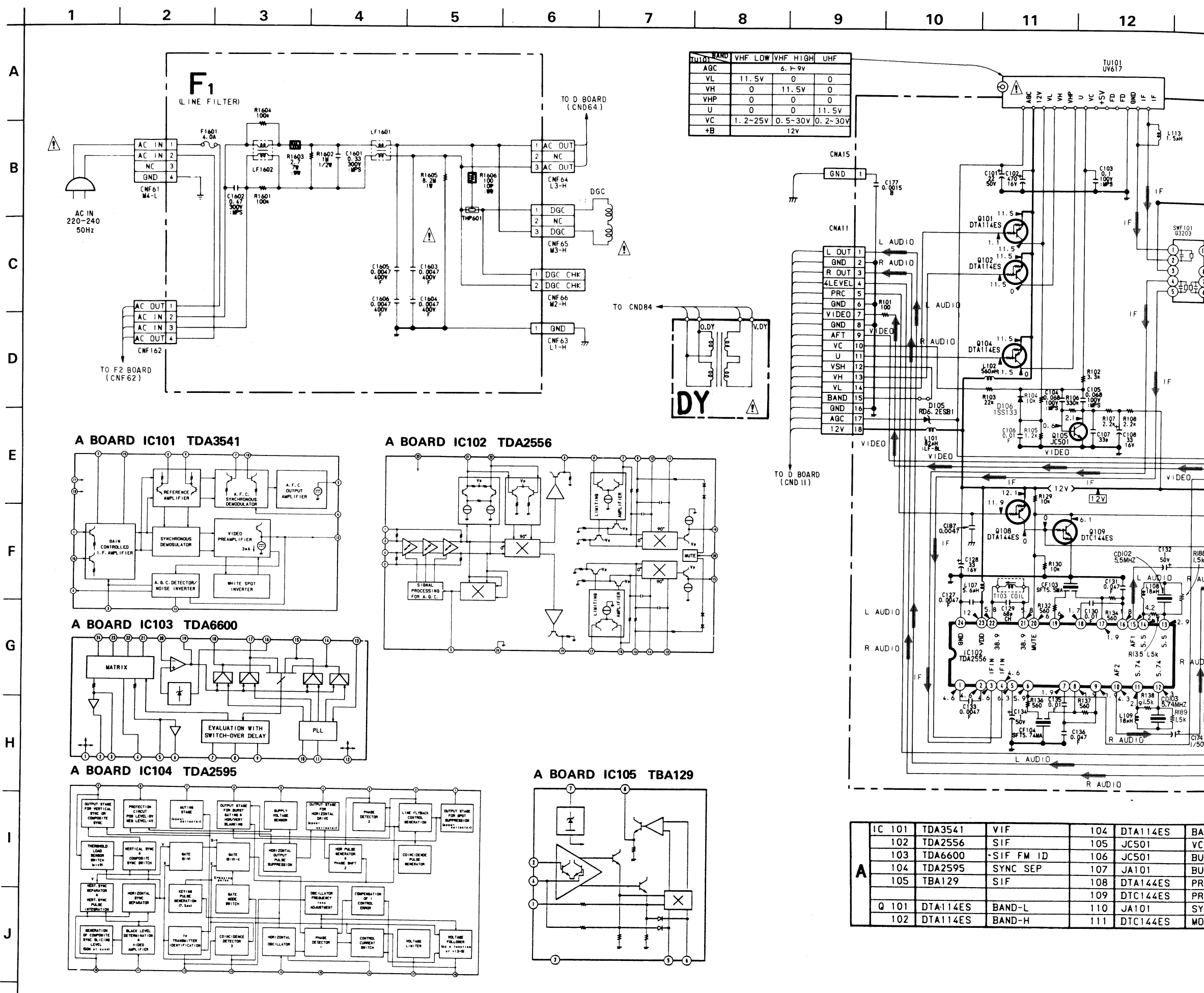
- All resistors are in ohms.
- : nonflammable resistor.
- : fusible resistor.
- Δ : internal component.
- : panel designation.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a $10\text{M}\Omega$ digital multimeter.
- Readings are taken with a PAL color-bar signal input.
- : adjustment for repair.
- Voltage variations may be noted due to normal production tolerances.
- : B+ line
- : B- line
- : signal path.

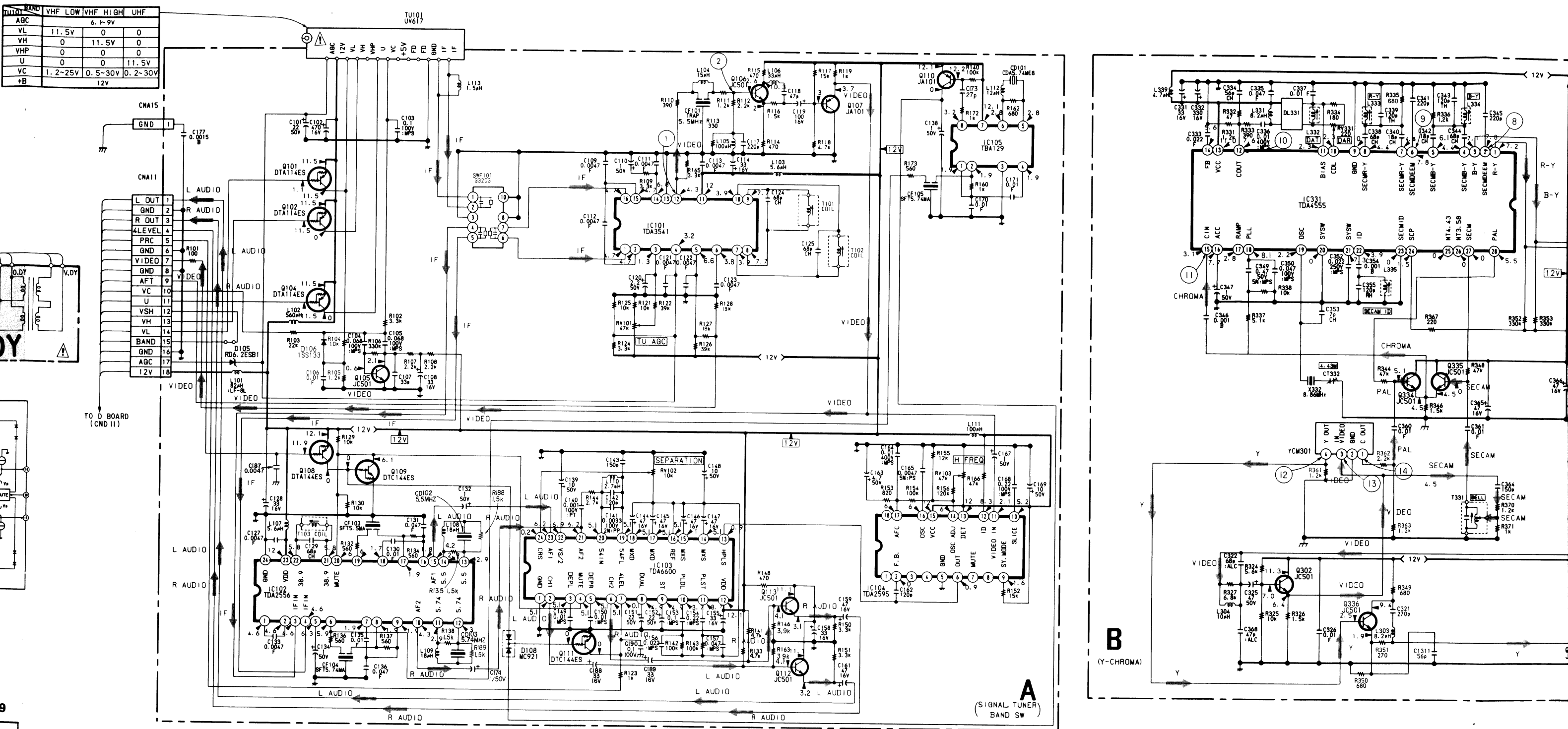
Reference information

RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE WIREWOUND
	: RB	NONFLAMMABLE CEMENT
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ABL	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

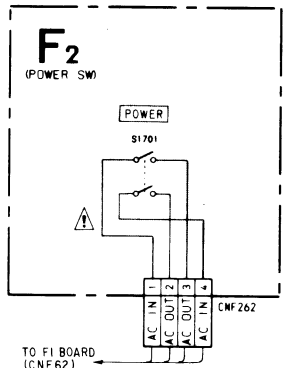
Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

5-3. SCHEMATIC DIAGRAM (1)

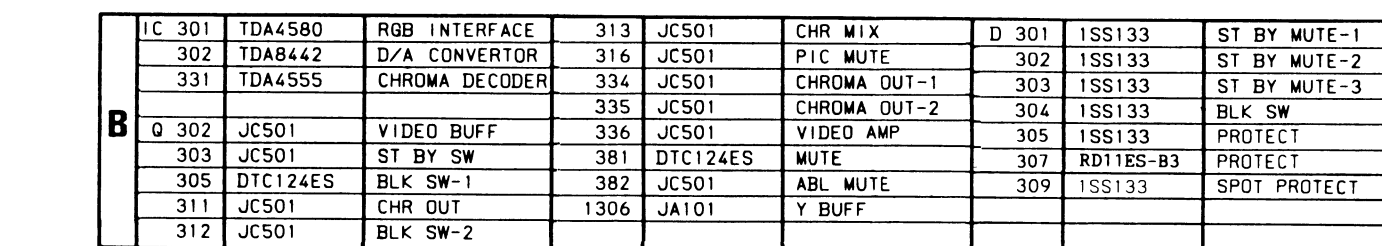
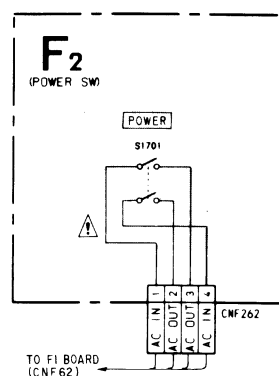
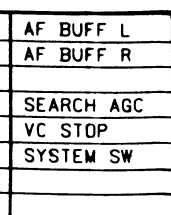




A	IC 101	TDA3541	VIF	104	DTA114ES	BAND U	112	JC501	AF BUFF L
	102	TDA2556	SIF	105	JC501	VC FILTER	113	JC501	AF BUFF R
	103	TDA6600	-SIF FM ID	106	JC501	BUFF AMP	D 105	RD6.2ESB1	SEARCH AGC
	104	TDA2595	SYNC SEP	107	JA101	BUFF AMP	106	ISS133	VC STOP
	105	TBA129	SIF	108	DTA144ES	PRC SW	108	MC921	SYSTEM SW
	Q 101	DTA114ES	BAND-L	109	DTC144ES	PRC SW			
	102	DTA114ES	BAND-H	110	JA101	SYSTEM SW			
				111	DTC144ES	MONO SW			



B	IC 301	TDA4580	RGB INTERFACE	313	JC501	CHR MIX
	302	TDA8442	D/A CONVERTOR	316	JC501	PIC MUTE
	331	TDA4555	CHROMA DECODER	334	JC501	CHROMA OUT-1
				335	JC501	CHROMA OUT-2
	Q 302	JC501	VIDEO BUFF	336	JC501	VIDEO AMP
	303	JC501	ST BY SW	381	DTC124ES	MUTE
	305	DTC124ES	BLK SW-1	382	JC501	ABL MUTE
	311	JC501	CHR OUT	1306	JA101	Y BUFF
	312	JC501	BLK SW-2			



• A BOARD WAVEFORM

• B BOARD WAVEFORM

• V BOARD WAVEFORM

A

B

C

D

E

F

G

H

I

J

K

L

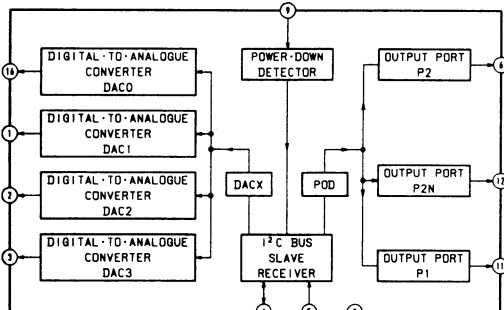
M

N

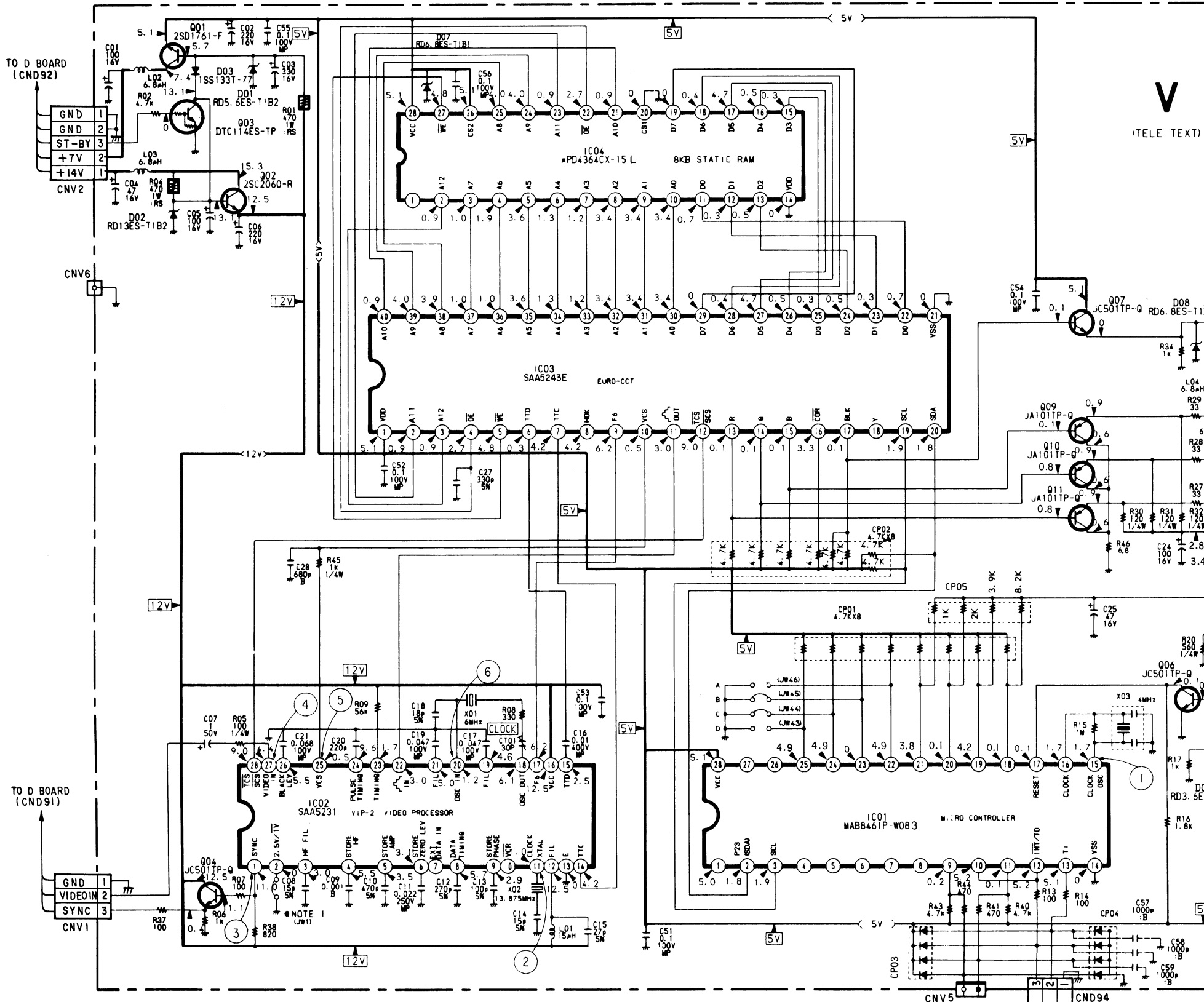
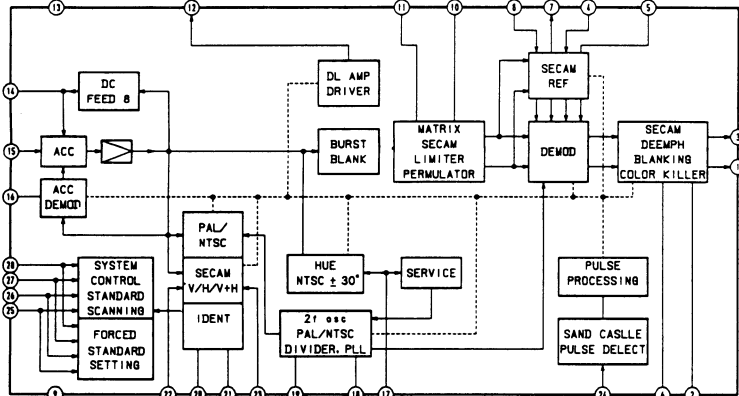
O

P

B BOARD IC302 TDA8442



B BOARD IC331 TDA4555

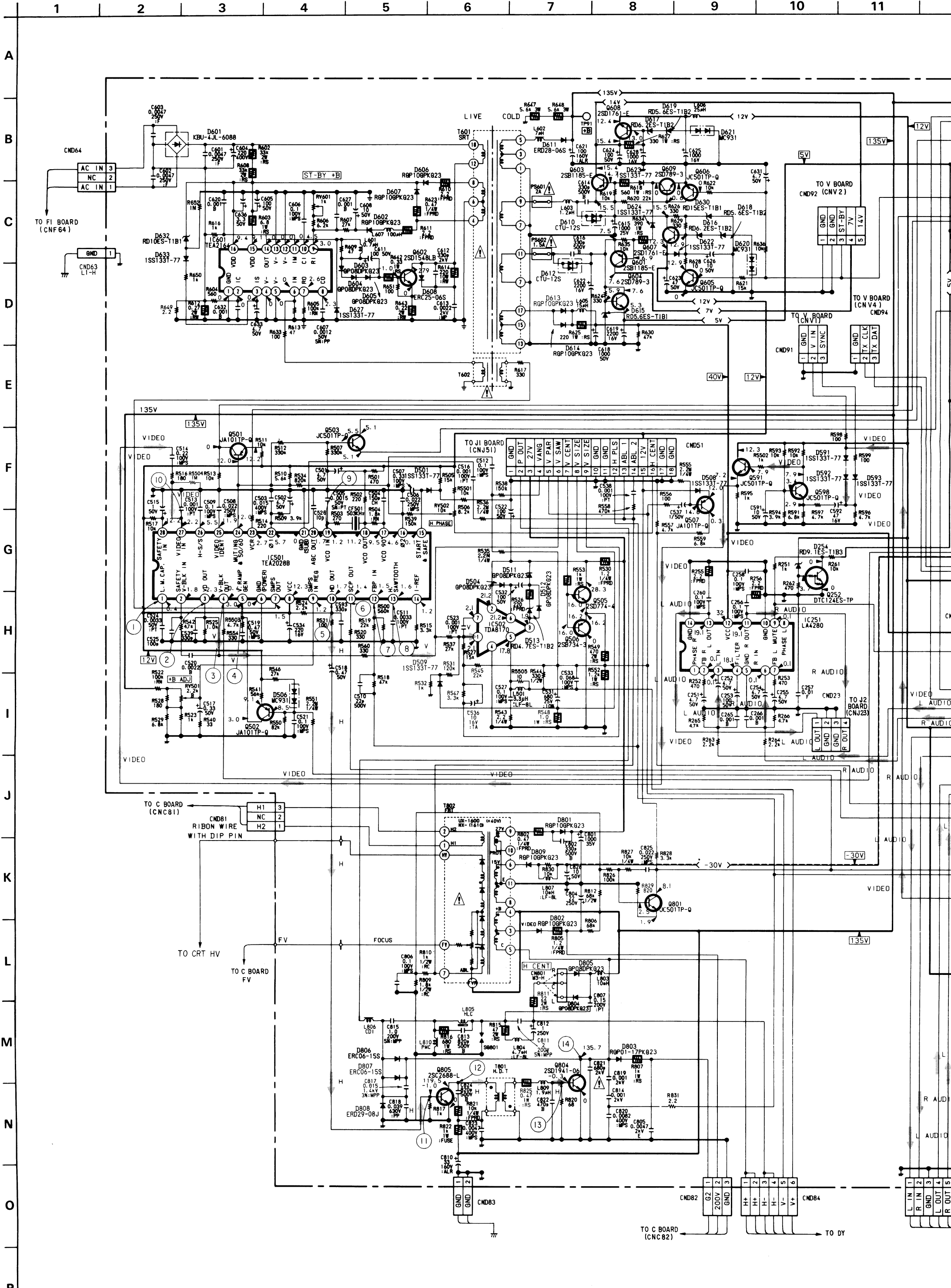


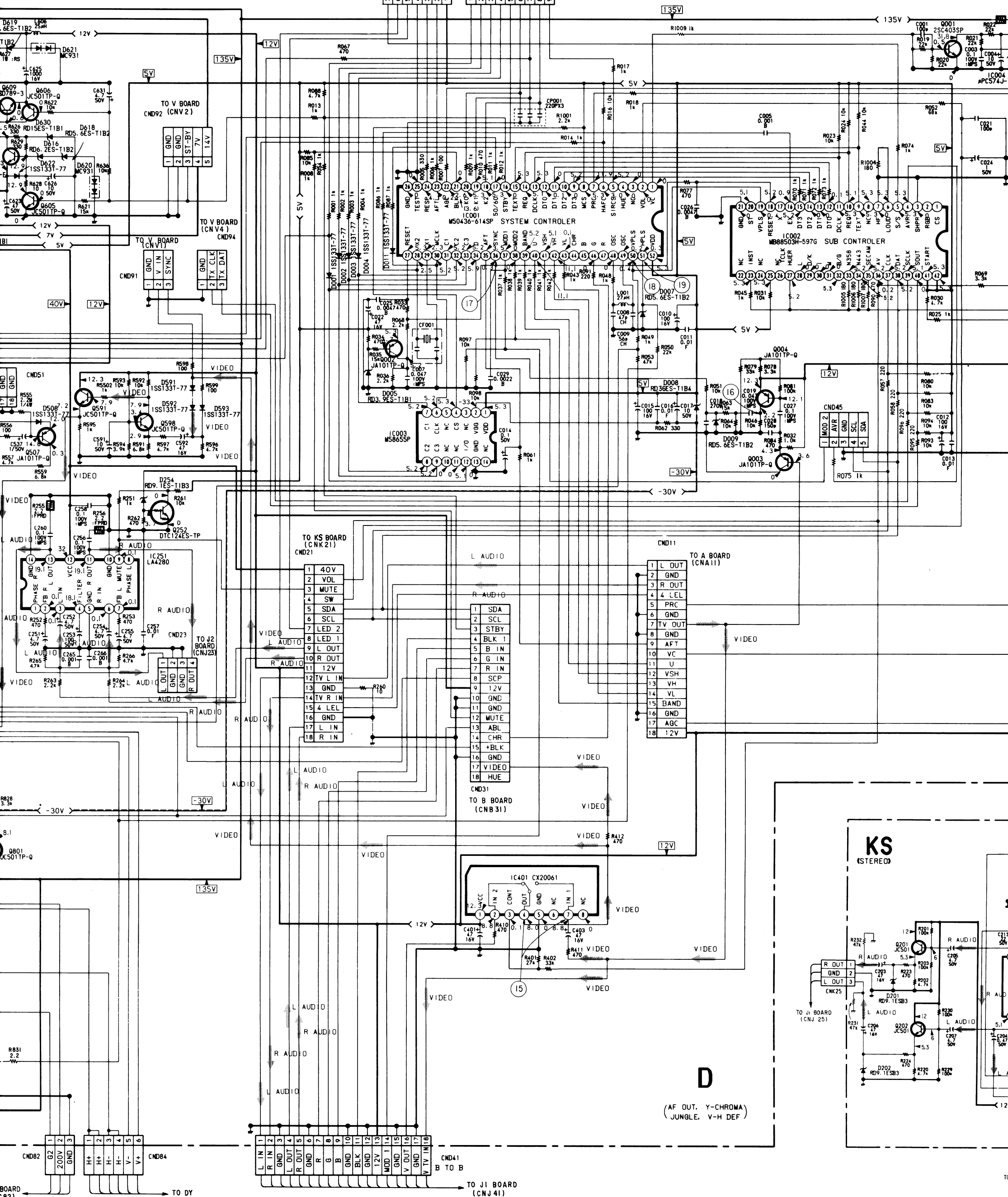
V

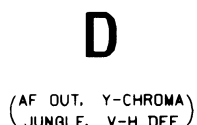
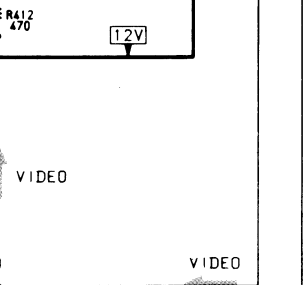
(TELE TEXT)

V	IC 01	MAB8461P-W136	MICRO CTL
	02	SAAS231-V4	VIDEO PROCESSOR
	03	SAAS243E	EURO CCT
	04	#PD4364CX-15L	8KB STATIC RAM
	Q 01	2SD1761-E	5V REG
	02	2SC2060-R	12V REG
	03	DTC114ES	ST BY
	04	JCS01	SYNC BUFF
	05	2SC2060-R	PIC LEVEL
	06	JCS01	RESET
	07	JCS01	BLK OUT
	09	JA101	B OUT
	10	JA101	G OUT
	11	JA101	R OUT
D 01	RD5. 6ES-B2	5V REG	
02	RD13ES-B2	12V REG	
03	1SS133	ST BY	
04	RD3. 6ES-B2	RESET	

SCHEMATIC DIAGRAM (2)







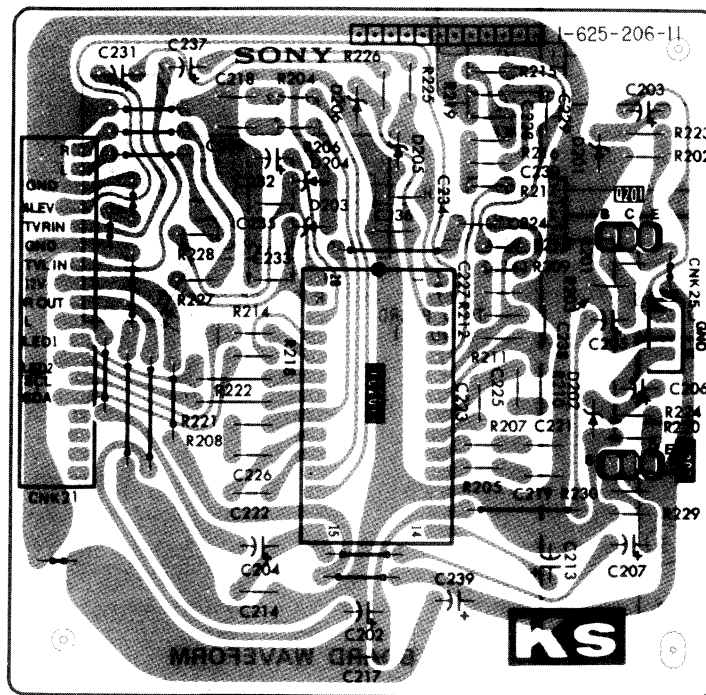
621	MC931	
622	1SS133	PROTECT-8
623	1SS133	STBY SW-1
624	1SS133	STBY SW-2
627	1SS133	PROTECT-9
630	RD1SES-B1	REG
632	RD10ES-B1	PROTECT
633	1SS133	PROTECT
801	RGP10GPKG23	27V RECT
802	RGP10GPKG23	200V RECT
803	RGP01-17PKG23	
804	GP08DPKG23	H CENT-1
805	GP08DPKG23	H CENT-2
806	ERC06-15S	H DANPER-1
807	ERC06-15S	H DANPER-2
808	RED29-08J	PIN DANPER
809	RGP10GPKG23	-30V RECT

KS

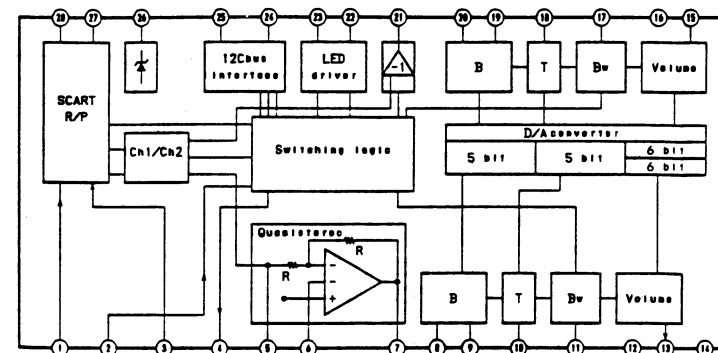
(STEREO) **KS** **D** [AF OUT, Y-CHROMA]
JUNGLE, V-H DEF

PRINTED WIRING BOARDS (2)

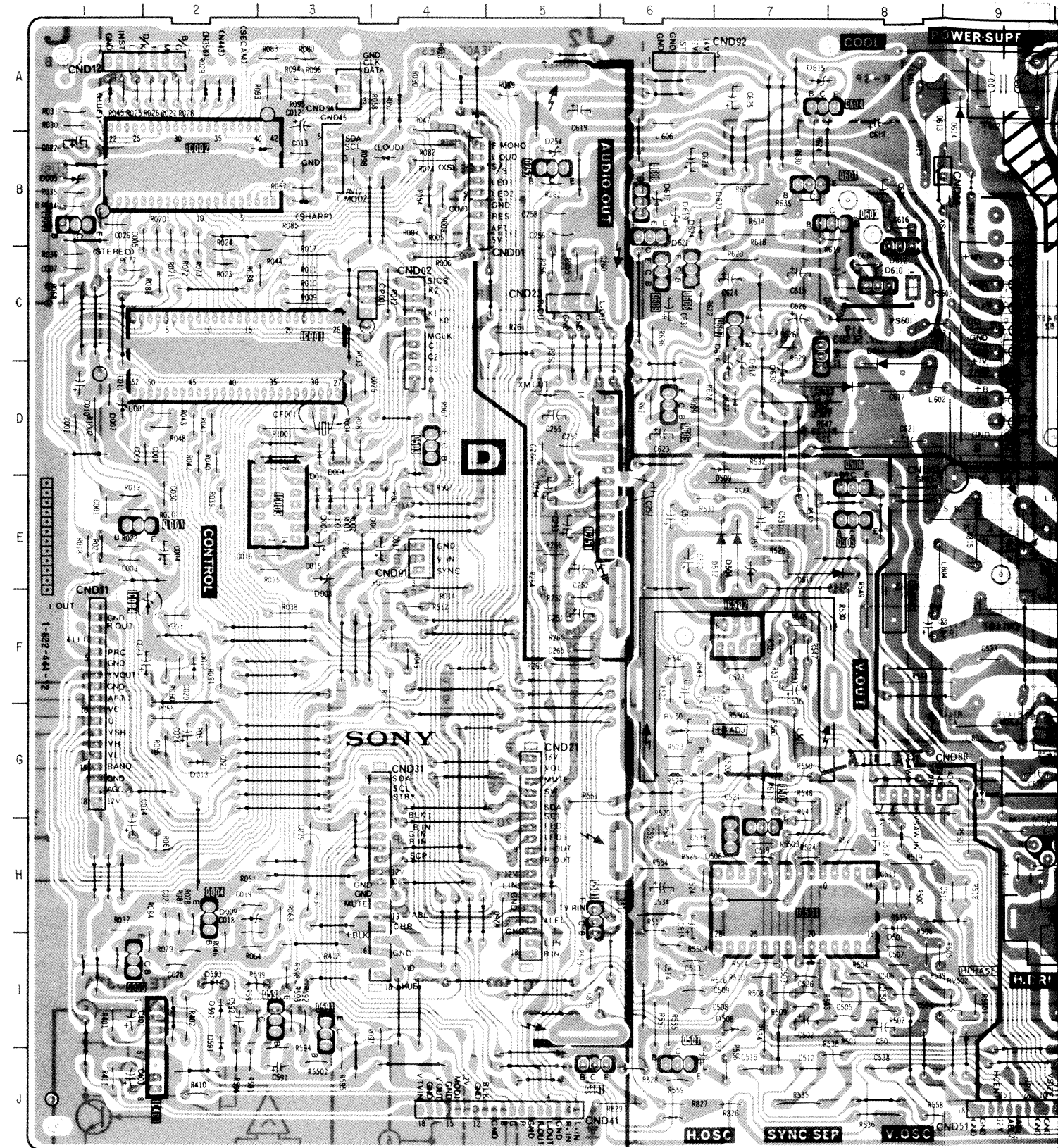
-KS Board-



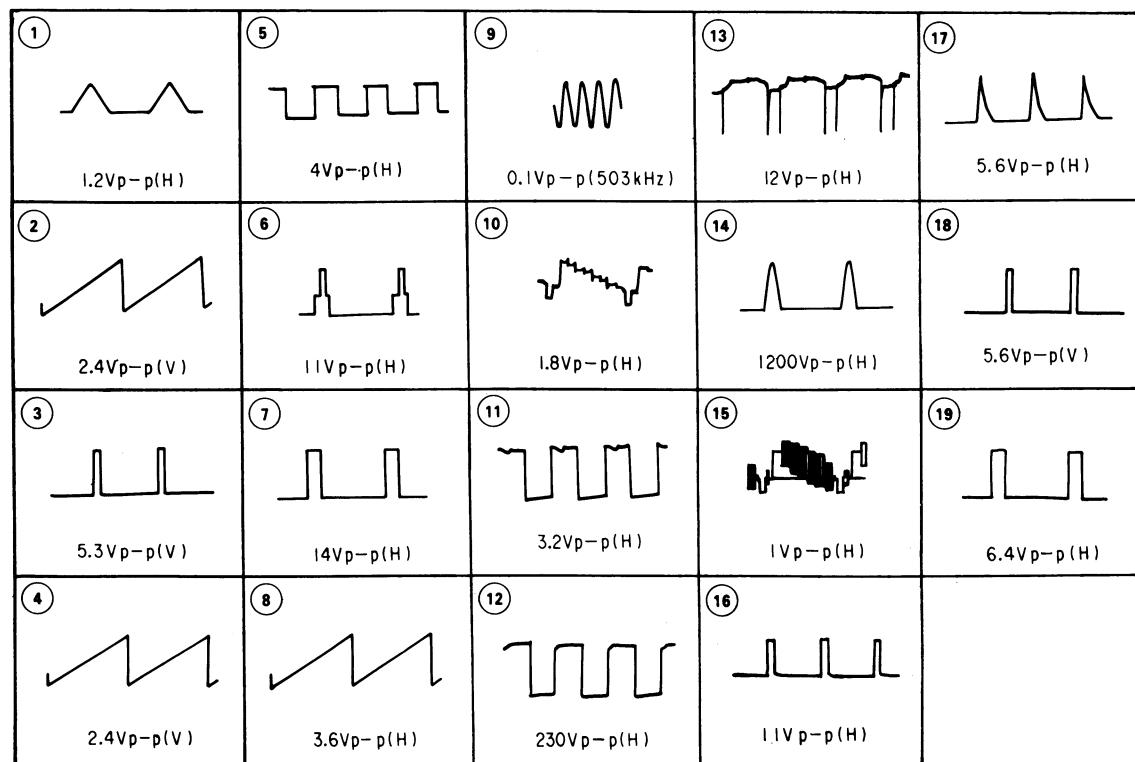
KS BOARD IC201 TDA6200



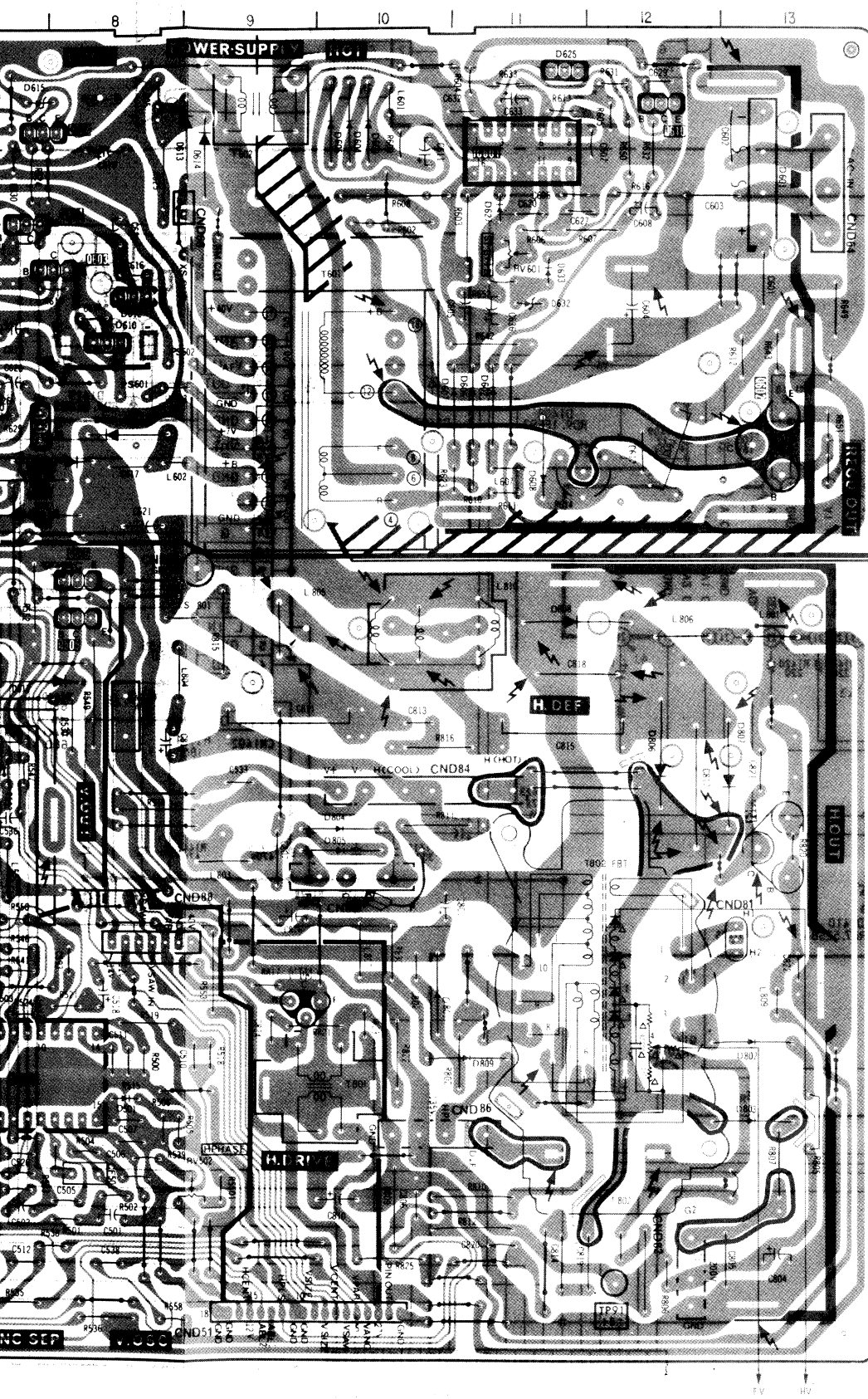
-D Board-



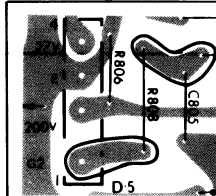
• D BOARD WAVEFORM



D



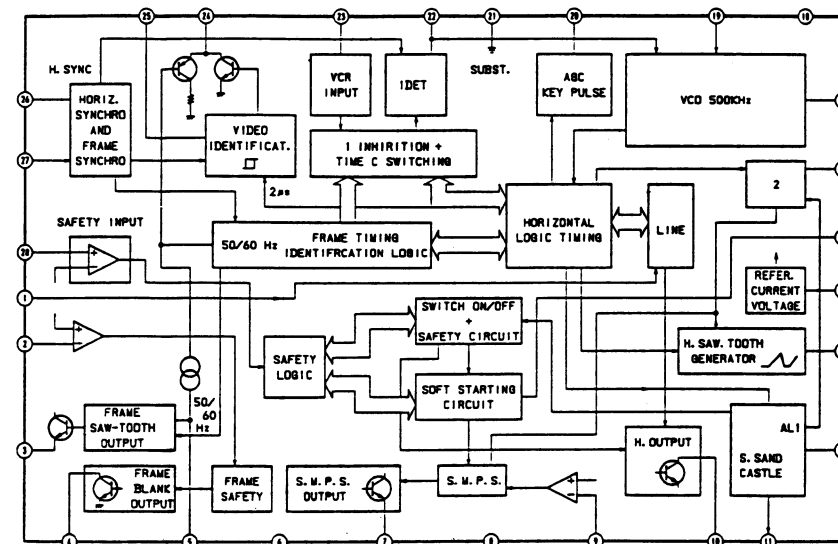
IC		D509	D-7
IC001	C-3	D511	E-8
IC002	B-2	D512	E-7
IC003	E-3	D513	E-7
IC004	F-2	D591	I-2
IC251	E-6		
		D592	I-2
IC401	J-2	D593	I-2
IC501	H-7	D601	B-13
IC502	F-7	D602	C-11
IC601	A-11	D603	A-10
TRANSISTOR		D604	A-10
		D605	A-10
Q001	E-1	D606	C-11
Q002	B-1	D607	C-11
Q003	I-1	D608	D-11
Q004	H-2		
Q252	B-5	D610	C-8
		D611	D-8
Q501	H-5	D612	C-8
Q502	H-7	D613	A-9
Q503	D-4	D614	A-9
Q505	E-8		
Q506	E-8	D615	A-7
		D616	D-7
Q507	J-6	D617	B-6
Q591	I-3	D618	D-7
Q598	I-3	D619	B-6
Q601	B-7		
Q602	D-13	D620	C-7
		D621	B-6
Q603	B-8	D622	D-7
Q604	A-8	D623	B-7
Q605	D-6	D624	B-6
Q606	C-6		
Q607	C-7	D627	B-11
		D630	D-7
Q608	B-6	D632	C-11
Q609	C-6	D633	B-11
Q801	J-5	D801	H-10
Q804	G-13		
Q805	H-9	D802	H-13
		D803	I-13
DIODE		D804	F-10
		D805	G-10
D001	E-3	D806	F-12
D002	E-3		
D003	E-3	D808	E-11
D004	D-3	D809	H-11
D005	B-1		
		VARIABLE RESISTOR	
D007	D-1	RV501	G-6
D008	E-3	RV502	I-9
D009	H-2	RV601	B-11
D011	D-3		
D013	G-2		
D254	B-5		
D501	H-8		
D504	E-7		
D506	H-7		
D508	I-7		



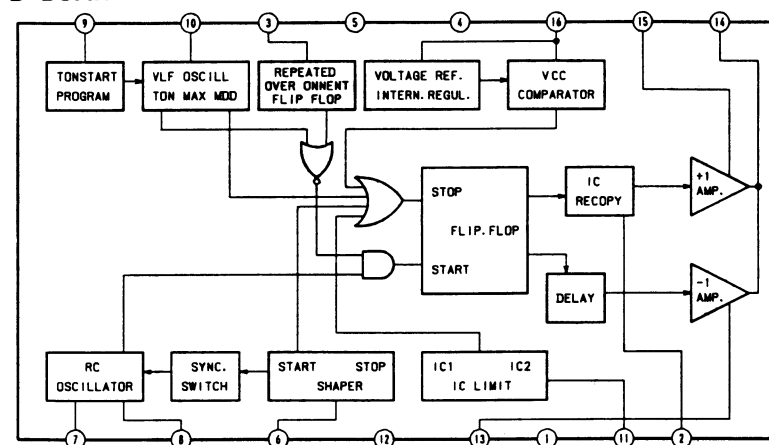
NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

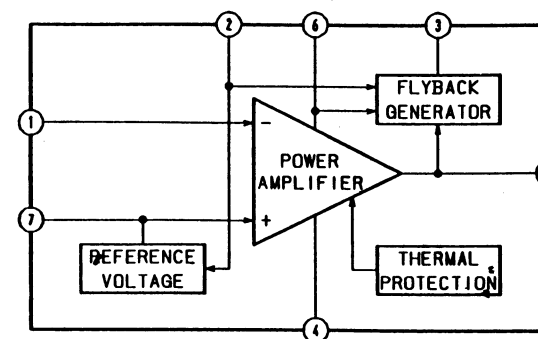
D BOARD IC501 TEA2028A



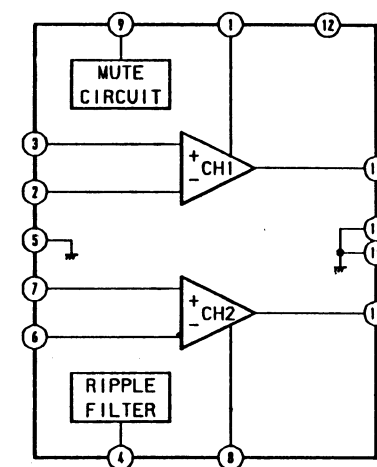
D BOARD IC601 TEA2164



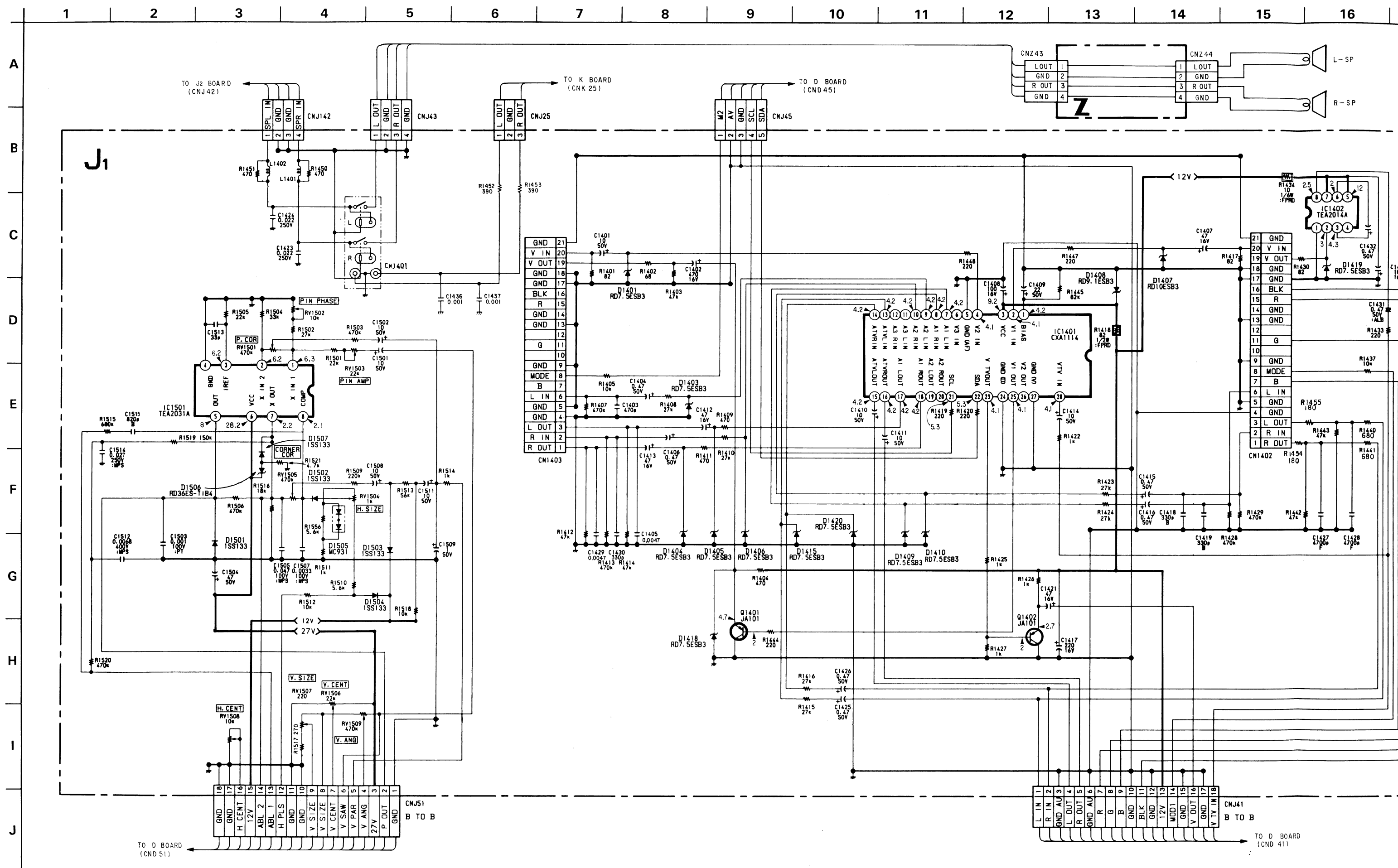
D BOARD IC502 TDA8170

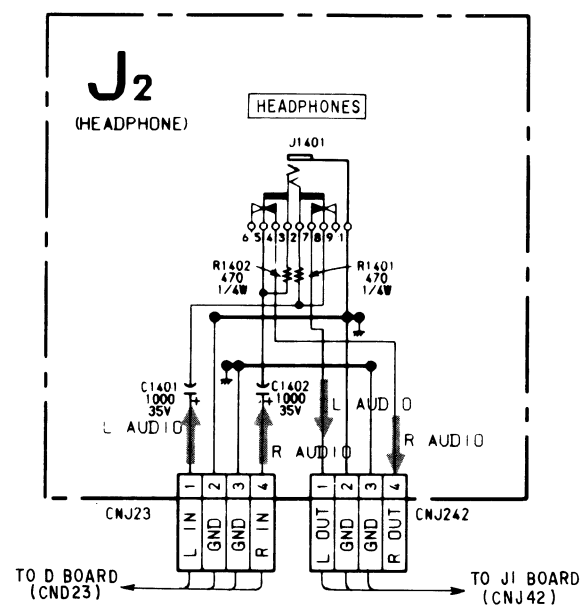
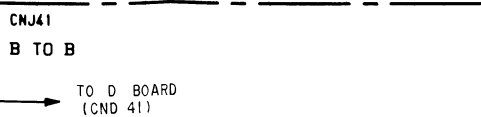


D BOARD IC251 LA4280

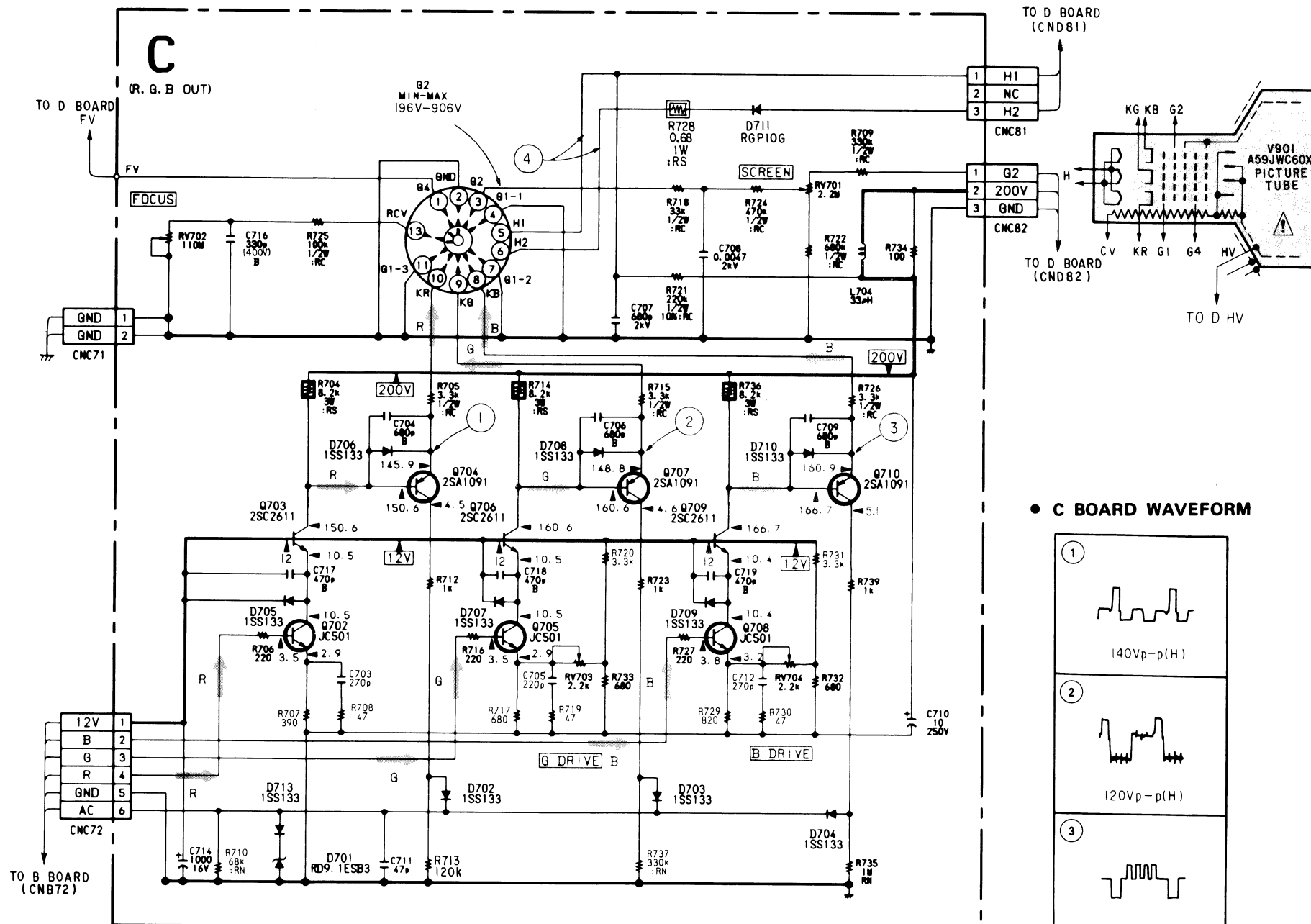
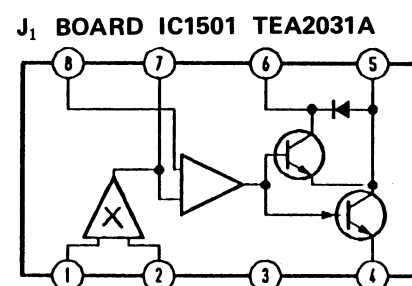
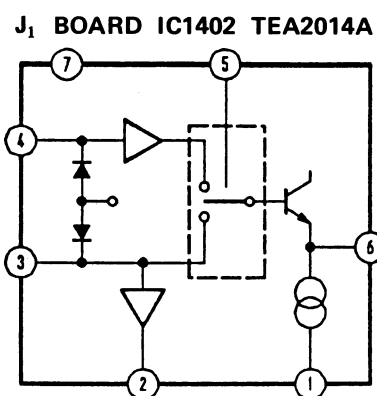


SCHEMATIC DIAGRAM (3)

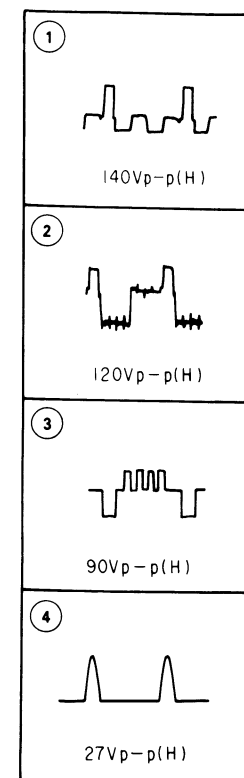




J ₁	IC1401	CXA1114	AV INTERFACE
	1402	TEA2014A	VIDEO AMP
	1501	TEA2031A	PIN AMP
	Q1401	JA101	VIDEO BUFF
	1402	JA101	VIDEO BUFF
	D1401	RD7. 5ESB3	PROTECT
	1403	RD7. 5ESB3	PROTECT
	1404	RD7. 5ESB3	PROTECT
	1405	RD7. 5ESB3	PROTECT
	1406	RD7. 5ESB3	PROTECT
	1407	RD10ESB3	PROTECT
	1408	RD9. 1ESB3	9V REG
	1409	RD7. 5ESB3	PROTECT
	1410	RD7. 5ESB3	PROTECT
	1415	RD7. 5ESB3	PROTECT
	1418	RD7. 5ESB3	PROTECT
	1419	RD7. 5ESB3	PROTECT
	1420	RD7. 5ESB3	PROTECT
	1501	1SS120	PROTECT
	1502	1SS133	DC STOP
	1503	1SS133	CORNER CORRECT
	1504	1SS133	H. P SLICER
	1505	MC931	PROTECT
	1506	RD36ESB4	PROTECT
	1507	1SS133	PROTECT



- C BOARD WAVEFORM



C	Q 702	JC501	R AMP	D 701	RD10ES-B3	PROTECT-1
	703	2SC2611	R OUT	702	1SS133	AC MIX-1
	704	2SA1091	R AC AMP	703	1SS133	AC MIX-2
	705	JC501	G AMP	704	1SS133	AC MIX-3
	706	2SC2611	G OUT	705	1SS133	PROTECT-2
	707	2SA1091	G AC AMP	706	1SS133	PROTECT-3
	708	JC501	B AMP	707	1SS133	PROTECT-4
	709	2SC2611	B OUT	708	1SS133	PROTECT-5
	710	2SA1091	B AC AMP	709	1SS133	PROTECT-6
				710	1SS133	PROTECT-7
			711	RGP10G	PROTECT-8	
			713	1SS133	PROTECT	

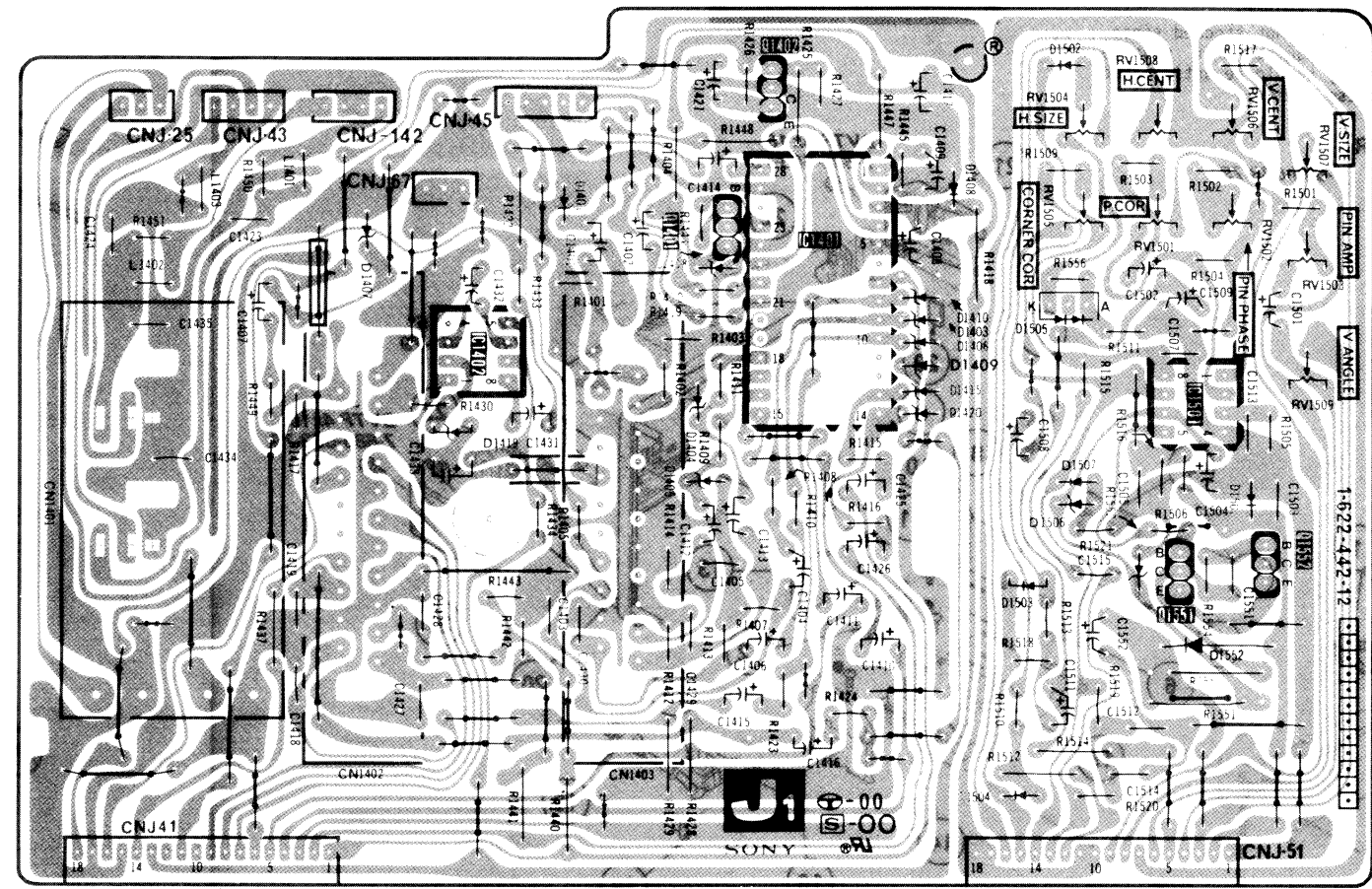
J1 (HEADPHONE) **J2** **H3** **H4**

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

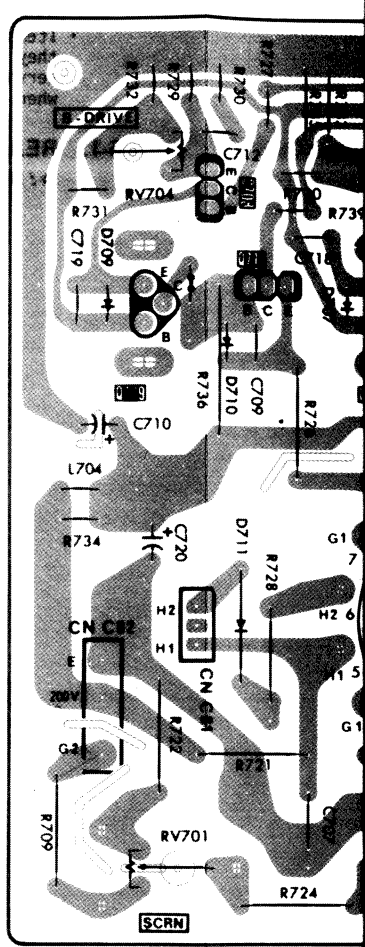
A
B
C
D
E
F
G
H
I
J

PRINTED WIRING BOARDS (3)

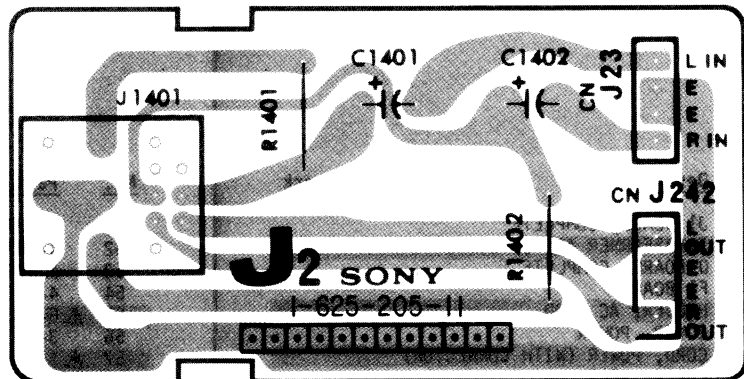
-J1 Board-



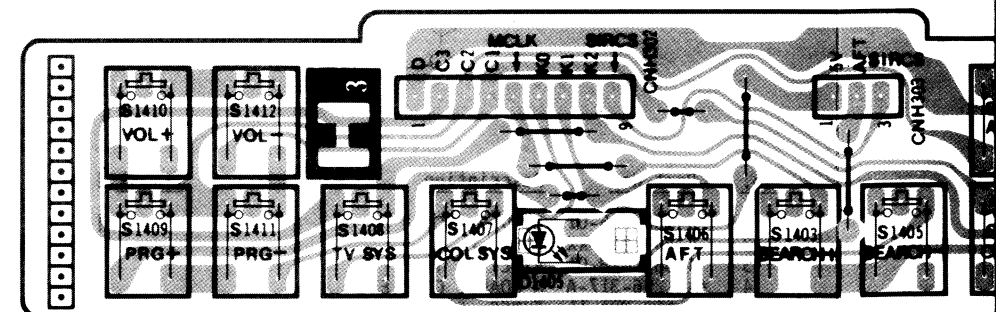
-C Board-



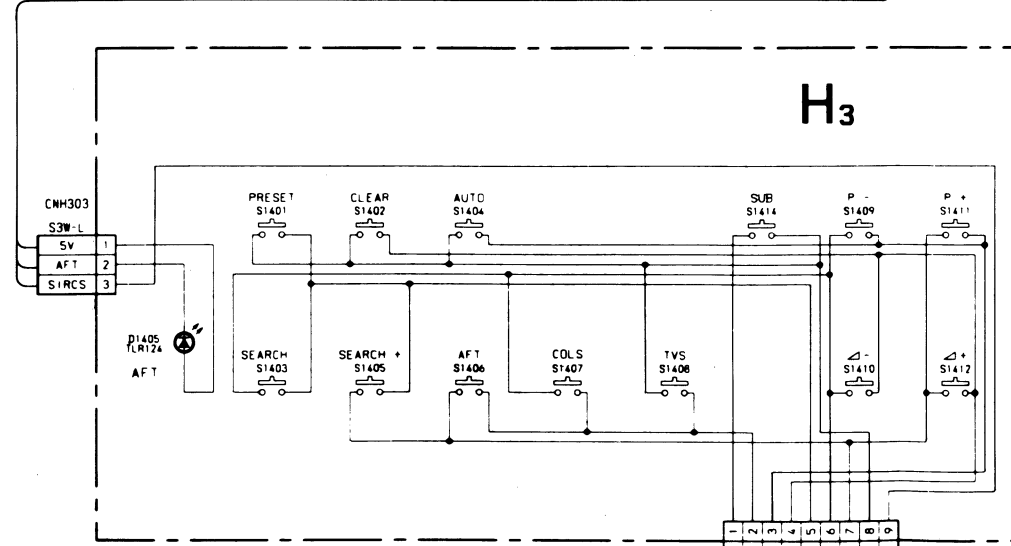
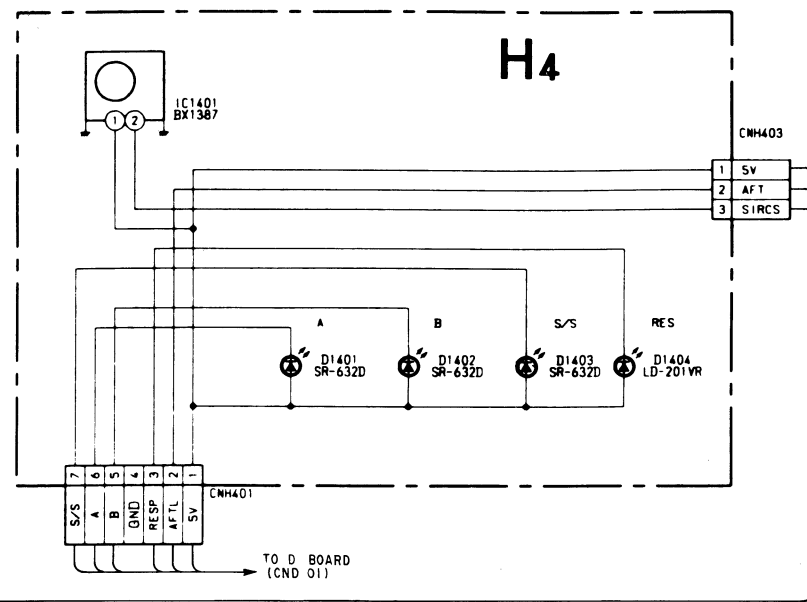
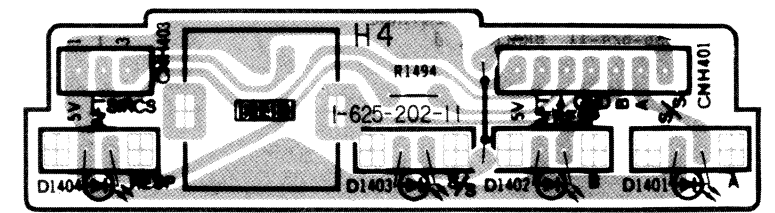
-J2 Board-



-H3 Board-



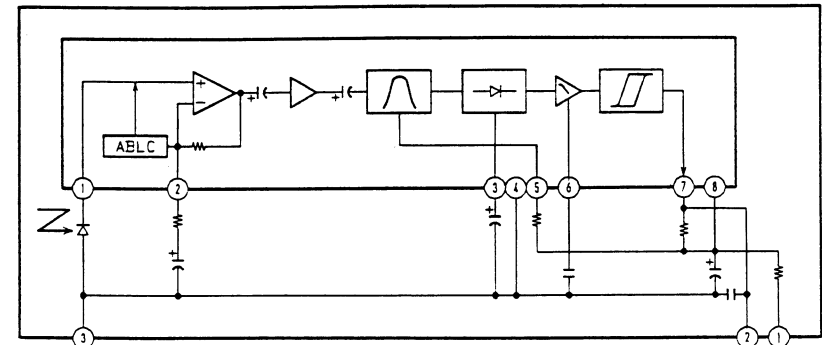
-H4 Board-



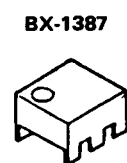
H4	IC1401	BX1387	REMOCON RECEIVER
	D1401	SR632D	A
	1402	SR632D	B
	1403	SR632D	SPACE SOUND
	1404	SR632D	RESP

H3	D1405	TLR124	AFT
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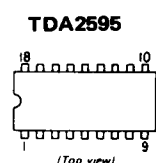
H4 BOARD IC1401 BX1387



5-5. SEMICONDUCTORS



BX-1387



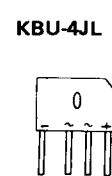
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2SA1175
2SC2785



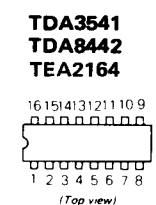
ISS119
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ISS133
ISS148
HZS39NB4TD
RD3.6ES-B2
RD3.9ES-B1
RD4.7ES-B1
RD4.7ES-B2
RD5.6ES-B1
RD5.6ES-B2
RD6.2ES-B1
RD6.2ES-B2
RD6.8ES-B1
RD6.8ES-B2
RD7.5ES-B3
RD9.1ES-B3
RD10ES-B3
RD13ES-B2
RD15ES-B1
RD36ES-B4



KBU-4JL



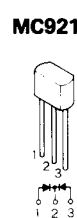
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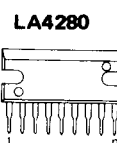
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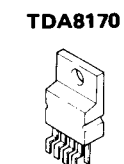
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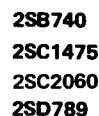
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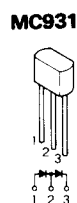
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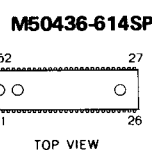
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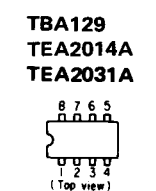
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2SC1475
2SC2060
2SD789



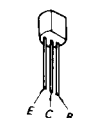
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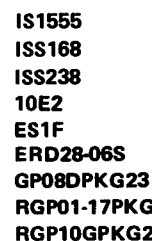
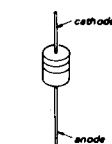
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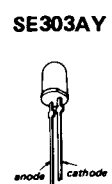
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TEA2014A
TEA2031A



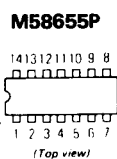
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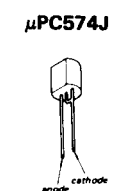
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ERD28-06S
GP08DPKG23
RGP01-17PKG23
RGP10PKG23



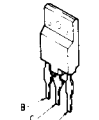
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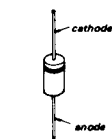
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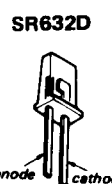
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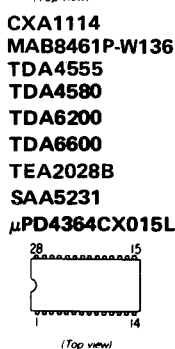
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CTU-12S



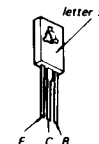
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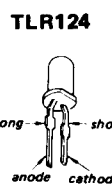
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TDA6200
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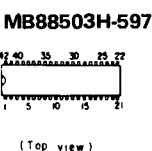
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JC501TP



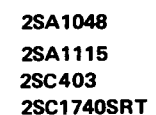
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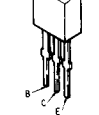
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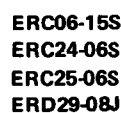
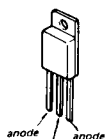
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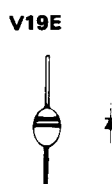
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2SC403
2SC1740SRT



2SD1941



ERC06-15S
ERC24-06S
ERC25-06S
ERD29-08J



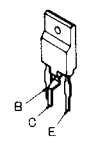
V19E



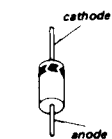
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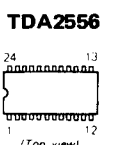
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DTA144ES
DTC114ES
DTC124ES
DTC144ES



DTA114ES
DTA124ES
DTA144ES
DTC114ES
DTC124ES
DTC144ES



DTA114ES



TDA2556



TDA2556

NOTE:

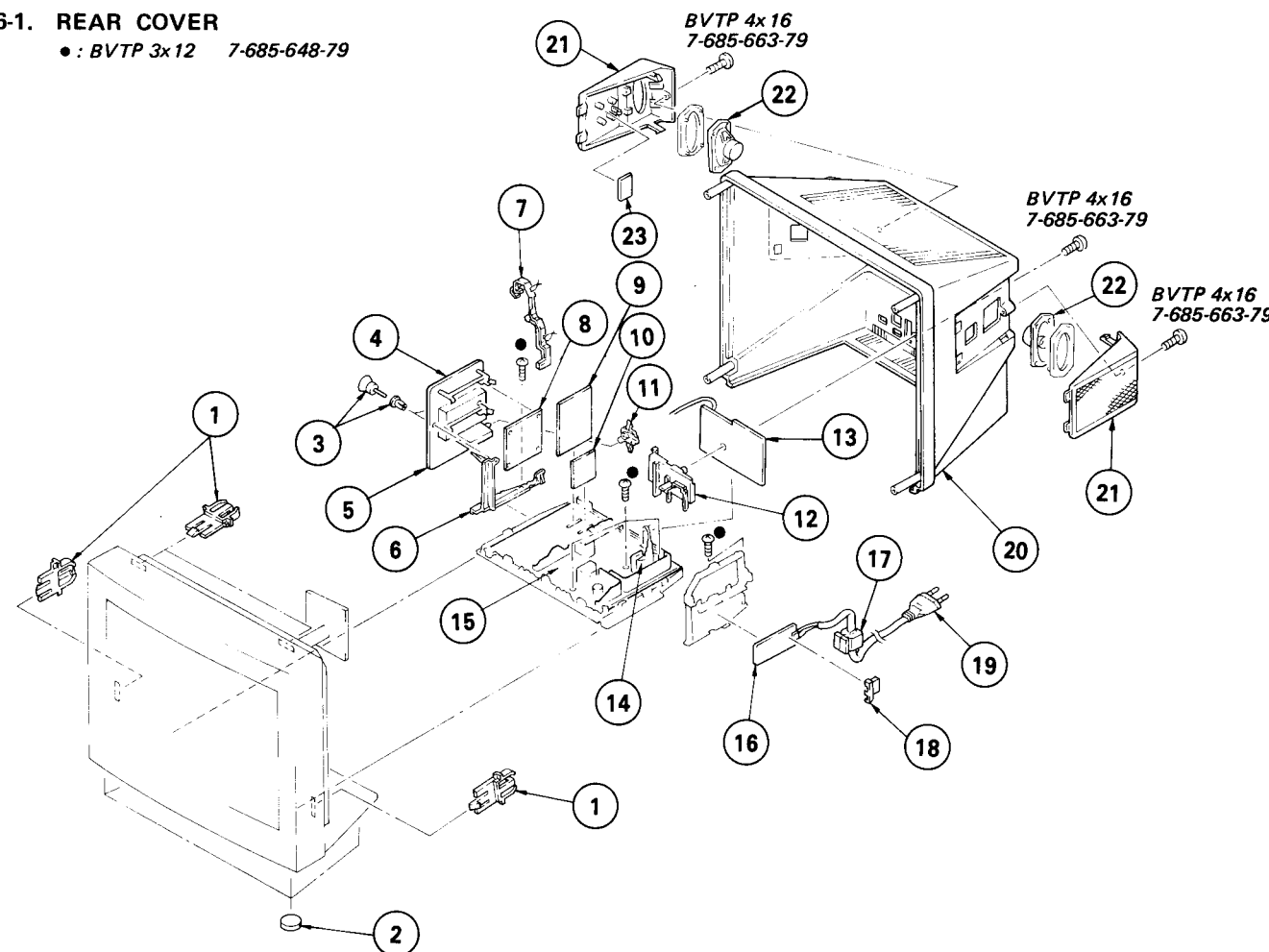
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

SECTION 6
EXPLODED VIEWS

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

6-1. REAR COVER

• : BVTP 3x12 7-685-648-79



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	4-382-745-01	HOLDER, RC		13	*A-1371-373-A	J1 BOARD, COMPLETE		51	4-387-		
2	4-809-913-XX	FOOT, F		14	Δ 1-439-416-11	TRANSFORMER ASSY, FLYBACK		52	4-387-		
3	4-386-618-01	RIVET, T TYPE		15	*A-1345-720-A	D BOARD, COMPLETE		53	X-4385-		
4	*A-1296-317-A	A BOARD, COMPLETE		16	*1-625-199-11	F1 BOARD		54	4-386-		
5	Δ 1-463-881-11	TUNER, ET (UV-617)		17	Δ 4-022-115-01	HOLDER, AC CORD		55	Δ 8-733-		
6	*4-386-629-11	BRACKET, A		18	*4-386-620-01	COVER, POWER		56	3-703-		
7	*4-386-628-11	SUPPORTER, PC BOARD		19	Δ 1-559-346-11	CORD, POWER (WITH CONNECTOR)		57	Δ 1-451-		
8	*A-1347-014-A	V BOARD, COMPLETE		20	4-387-818-01	COVER, REAR		58	*4-379-		
9	*A-1135-455-A	B BOARD, COMPLETE		21	X-4385-930-1	BOARD ASSY, BAFFLE		59	*A-1330-		
10	*1-625-206-11	KS BOARD		22	1-503-642-21	SPEAKER		60	*4-379-		
11	*4-386-617-01	HOLDER, TERMINAL		23	*1-625-208-11	Z BOARD		61	4-303-		
12	*4-386-624-11	BRACKET, J						62	*4-385-		

SECTION 6 EXPLODED VIEWS

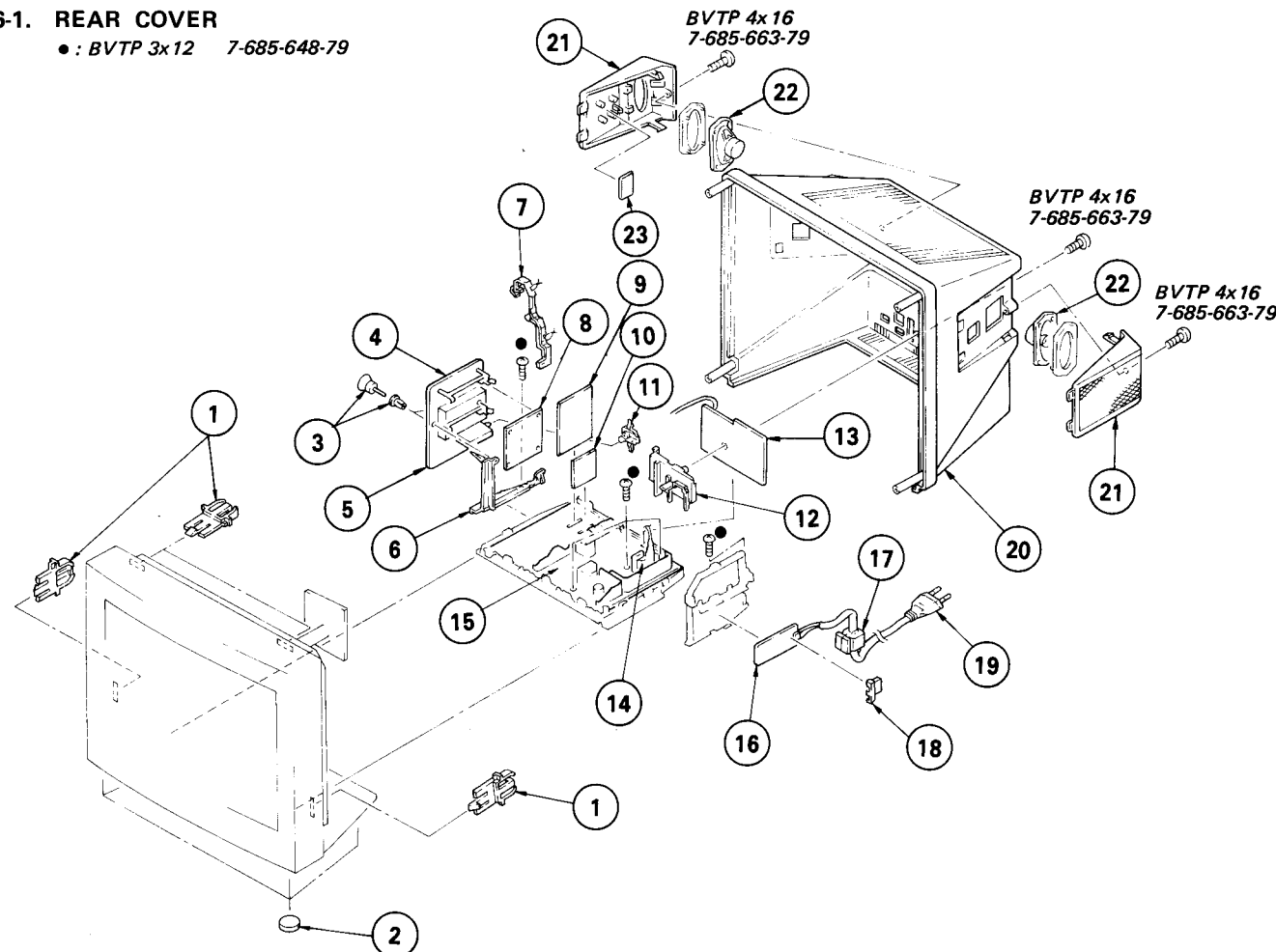
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark **▲** are critical for safety.
Replace only with part number specified.

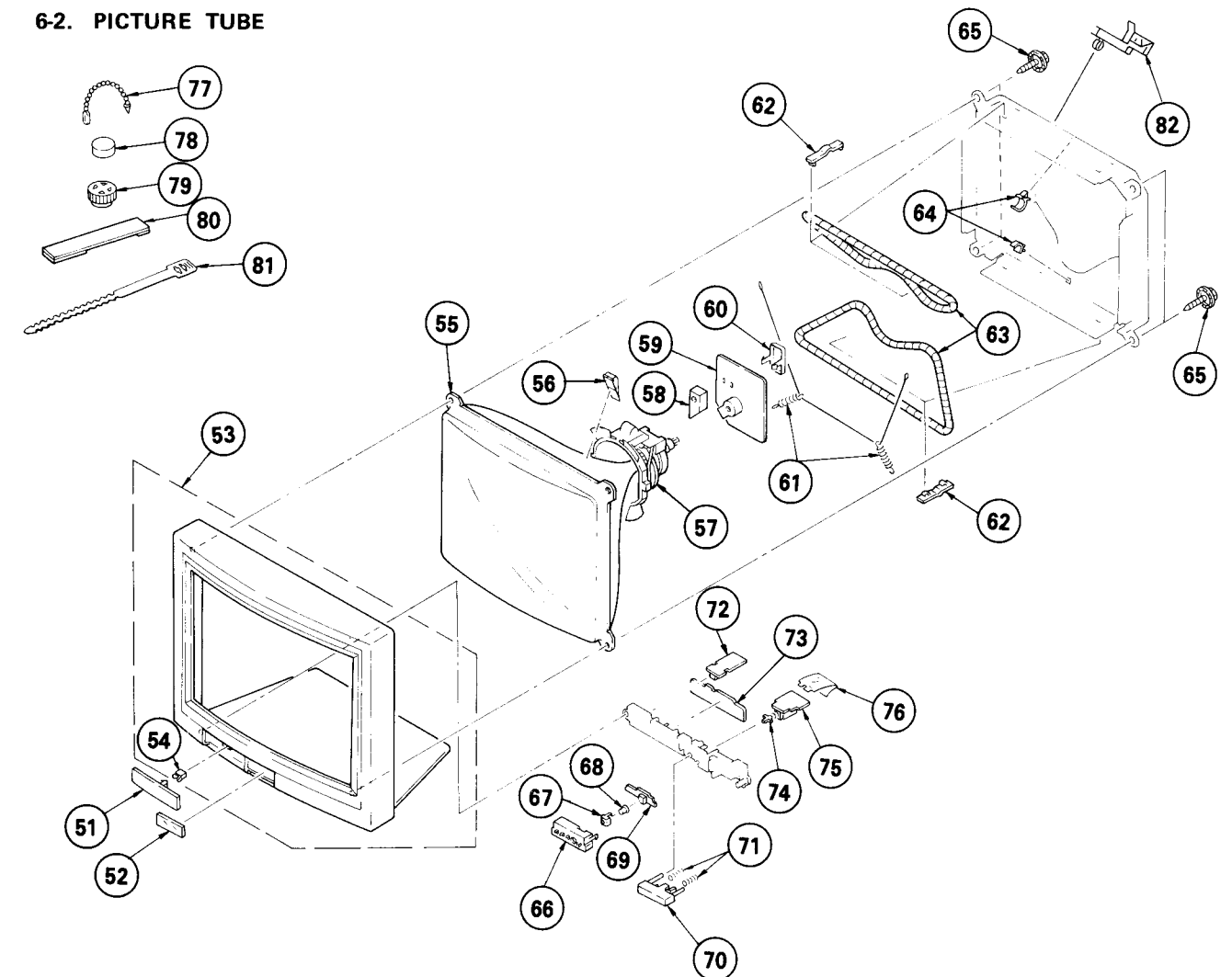
6-1. REAR COVER

●: BVTP 3x12 7-685-648-79



No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
1	4-382-745-01	HOLDER, RC		13	*A-1371-373-A	J1 BOARD, COMPLETE	
2	4-809-913-XX	FOOT, F		14	▲1-439-416-11	TRANSFORMER ASSY, FLYBACK	
3	4-386-618-01	RIVET, T TYPE		15	*A-1345-720-A	D BOARD, COMPLETE	
4	*A-1296-317-A	A BOARD, COMPLETE		16	*1-625-199-11	F1 BOARD	
5	▲1-463-881-11	TUNER, ET (UV-617)		17	▲4-022-115-01	HOLDER, AC CORD	
6	*4-386-629-11	BRACKET, A		18	*4-386-620-01	COVER, POWER	
7	*4-386-628-11	SUPPORTER, PC BOARD		19	▲1-559-346-11	CORD, POWER (WITH CONNECTOR)	
8	*A-1347-014-A	V BOARD, COMPLETE		20	4-387-818-01	COVER, REAR	
9	*A-1135-455-A	B BOARD, COMPLETE		21	X-4385-930-1	BOARD ASSY, BAFFLE	
10	*1-625-206-11	KS BOARD		22	1-503-642-21	SPEAKER	
11	*4-386-617-01	HOLDER, TERMINAL		23	*1-625-208-11	Z BOARD	
12	*4-386-624-11	BRACKET, J					

6-2. PICTURE TUBE



The components identified by shading and mark **▲** are critical for safety.
Replace only with part number specified.

No.	Part No.	Description	Remark	No.	Part No.	Description	Remark
51	4-387-814-21	DOOR		67	*4-381-686-01	BRACKET (B), BAR, OPTICAL	
52	4-387-826-01	WINDOW, ORNAMENTAL		68	*4-374-987-01	GUIDE, LIGHT	
53	X-4385-931-1	BEZEL & CABINET ASSY	54	69	*1-625-202-11	H4 BOARD	
54	4-386-710-01	CATCHER, PUSH		70	4-387-812-01	BUTTON, POWER	
55	▲8-733-224-05	PICTURE TUBE (A59JWC60X)		71	4-387-809-01	SPRING	
56	3-703-961-01	SPACER, DY		72	*1-625-205-11	J2 BOARD	
57	▲1-451-311-21	DEFLECTION YOKE (SY-153E)		73	*1-625-201-11	H3 BOARD	
58	*4-379-167-01	COVER (MAIN), CV		74	▲1-571-410-11	SWITCH, PUSH (AC POWER) (1 KEY)	
59	*A-1330-849-A	C BOARD, COMPLETE		75	*1-625-200-11	F2 BOARD	
60	*4-379-160-01	COVER (REAR LID), CV		76	*4-387-804-01	INSULATOR	
61	4-303-774-XX	SPRING		77	4-308-870-00	CLIP, LEAD WIRE	
62	*4-385-916-01	HOLDER (D)		78	1-452-032-00	MAGNET, DISK; 10MM Ø	
63	▲1-426-325-11	COIL, DEMAGNETIZATION		79	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM Ø	
64	*4-371-629-01	STOPPER, WIRE		80	X-4387-214-1	PERMALLOY ASSY, CORRECTION	
65	4-373-263-01	SCREW (M), PT		81	3-701-007-00	BAND, BINDING	
66	*4-387-813-01	COVER, H2		82	*4-387-216-01	HOLDER, LEAD	

SECTION 7 ELECTRICAL PARTS LIST

KV-X25TD
RM-673

B

NOTE:

The components identified by shading and mark **A** are critical for safety.
Replace only with part number specified.

• Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS

- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS


• MF : μ F, PF : μ F

COILS

• MMH : mH, UH : μ H

Note: In this parts list, the mounting diagram is for a different product.
Therefore, an excess of parts is listed.

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
	*A-1135-455-A	B BOARD, COMPLETE *****		C367	1-101-004-00	CERAMIC 0.01MF	50V
		<u>CAPACITOR</u>		C368	1-101-880-00	CERAMIC 47PF	5% 50V
C301	1-110-179-81	MYLAR 0.22MF	10% 100V	C381	1-124-902-00	ELECT 0.47MF	20% 50V
C302	1-110-179-81	MYLAR 0.22MF	10% 100V	C382	1-124-927-11	ELECT 4.7MF	20% 50V
C303	1-126-101-11	ELECT 100MF	20% 16V	C384	1-124-477-11	ELECT 47MF	20% 16V
C304	1-110-179-81	MYLAR 0.22MF	10% 100V	C385	1-124-927-11	ELECT 4.7MF	20% 50V
C305	1-124-119-00	ELECT 330MF	20% 16V	C387	1-124-902-00	ELECT 0.47MF	20% 50V
C306	1-124-902-00	ELECT 0.47MF	20% 50V	C1311	1-101-884-00	CERAMIC 56PF	5% 50V
C307	1-124-902-00	ELECT 0.47MF	20% 50V			<u>CONNECTOR</u>	
C308	1-124-902-00	ELECT 0.47MF	20% 50V	CNB31	*1-562-370-21	CONNECTOR, BOARD TO BOARD 18P	
C309	1-124-902-00	ELECT 0.47MF	20% 50V	CNB72	*1-564-895-11	PLUG, CONNECTOR 6P	
C310	1-110-175-81	MYLAR 0.1MF	10% 100V	CNB93	*1-560-278-00	PLUG, CONNECTOR 6P	
C311	1-110-175-81	MYLAR 0.1MF	10% 100V			<u>TRIMMER</u>	
C312	1-124-902-00	ELECT 0.47MF	20% 50V	CT332	1-141-181-11	CAP, TRIMMER	
C313	1-124-902-00	ELECT 0.47MF	20% 50V			<u>DIODE</u>	
C314	1-124-902-00	ELECT 0.47MF	20% 50V	D301	8-719-911-19	DIODE 1SS119	
C315	1-124-499-11	ELECT 1MF	20% 50V	D302	8-719-911-19	DIODE 1SS119	
C319	1-124-477-11	ELECT 47MF	20% 16V	D303	8-719-911-19	DIODE 1SS119	
C321	1-102-980-00	CERAMIC 270PF	5% 50V	D304	8-719-911-19	DIODE 1SS119	
C322	1-101-888-00	CERAMIC 68PF	5% 50V	D305	8-719-911-19	DIODE 1SS119	
C325	1-124-477-11	ELECT 47MF	20% 16V	D307	8-719-110-23	DIODE RD11ES-B3	
C326	1-101-004-00	CERAMIC 0.01MF	50V	D309	8-719-911-19	DIODE 1SS119	
C327	1-101-004-00	CERAMIC 0.01MF	50V			<u>DELAY LINE</u>	
C331	1-124-963-11	ELECT 33MF	20% 16V	DL331	1-415-187-13	DELAY LINE	
C332	1-124-119-00	ELECT 330MF	20% 16V			<u>IC</u>	
C333	1-101-005-00	CERAMIC 0.022MF	50V	IC301	8-759-923-81	IC TDA4580	
C334	1-101-884-00	CERAMIC 56PF	5% 50V	IC302	8-759-941-98	IC TDA8442	
C335	1-101-006-00	CERAMIC 0.047MF	50V	IC331	8-759-947-20	IC TDA4555-V8	
C336	1-110-190-81	MYLAR 0.01MF	10% 400V			<u>COIL</u>	
C337	1-101-004-00	CERAMIC 0.01MF	50V	L301	1-410-868-21	INDUCTOR 4.7UH	
C338	1-101-888-00	CERAMIC 68PF	5% 50V	L302	1-410-868-21	INDUCTOR 4.7UH	
C339	1-102-735-00	CERAMIC 120PF	5% 50V	L303	1-410-469-21	INDUCTOR 8.2UH	
C340	1-102-953-00	CERAMIC 18PF	5% 50V	L304	1-410-470-11	INDUCTOR 10UH	
C341	1-102-978-00	CERAMIC 220PF	5% 50V	L331	1-410-469-21	INDUCTOR 8.2UH	
C342	1-102-953-00	CERAMIC 18PF	5% 50V	L332	1-404-539-11	COIL	
C343	1-102-735-00	CERAMIC 120PF	5% 50V	L333	1-404-554-11	COIL	
C344	1-101-888-00	CERAMIC 68PF	5% 50V	L334	1-404-554-11	COIL	
C345	1-102-978-00	CERAMIC 220PF	5% 50V	L335	1-404-554-11	COIL	
C346	1-102-074-00	CERAMIC 0.001MF	10% 50V	L339	1-410-868-21	INDUCTOR 4.7UH	
C347	1-124-499-11	ELECT 1MF	20% 50V				
C349	1-136-173-00	FILM 0.47MF	5% 50V				
C350	1-110-171-81	MYLAR 0.047MF	10% 100V				
C352	1-110-182-81	MYLAR 0.022MF	10% 250V				
C353	1-102-506-00	CERAMIC 7PF	0.5PF 50V				
C354	1-102-074-00	CERAMIC 0.001MF	10% 50V				
C355	1-102-679-00	CERAMIC 120PF	5% 50V				
C360	1-101-004-00	CERAMIC 0.01MF	50V				
C361	1-101-004-00	CERAMIC 0.01MF	50V				
C364	1-101-361-00	CERAMIC 150PF	5% 50V				
C365	1-124-477-11	ELECT 47MF	20% 16V				
C366	1-124-477-11	ELECT 47MF	20% 16V				

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

B **Z** **F2**

Ref.No. Part No. Description

TRANSISTOR

Q302	8-729-178-54	TRANSISTOR	2SC2785
Q303	8-729-178-54	TRANSISTOR	2SC2785
Q304	8-729-900-36	TRANSISTOR	DTC124ES
Q305	8-729-900-36	TRANSISTOR	DTC124ES
Q311	8-729-178-54	TRANSISTOR	2SC2785
Q312	8-729-178-54	TRANSISTOR	2SC2785
Q313	8-729-178-54	TRANSISTOR	2SC2785
Q316	8-729-178-54	TRANSISTOR	2SC2785
Q334	8-729-178-54	TRANSISTOR	2SC2785
Q335	8-729-178-54	TRANSISTOR	2SC2785
Q336	8-729-178-54	TRANSISTOR	2SC2785
Q381	8-729-900-36	TRANSISTOR	DTC124ES
Q382	8-729-178-54	TRANSISTOR	2SC2785
Q1306	8-729-117-54	TRANSISTOR	2SA1175

RESISTOR

R301	1-249-409-11	CARBON	220	5%	1/4W
R302	1-249-409-11	CARBON	220	5%	1/4W
R303	1-249-409-11	CARBON	220	5%	1/4W
R304	1-249-409-11	CARBON	220	5%	1/4W
R305	1-249-421-11	CARBON	2.2K	5%	1/4W
R307	1-249-441-11	CARBON	100K	5%	1/4W
R308	1-249-414-11	CARBON	560	5%	1/4W
R309	1-249-405-11	CARBON	100	5%	1/4W
R310	1-249-405-11	CARBON	100	5%	1/4W
R311	1-249-405-11	CARBON	100	5%	1/4W
R312	1-249-409-11	CARBON	220	5%	1/4W
R313	1-249-441-11	CARBON	100K	5%	1/4W
R314	1-249-413-11	CARBON	470	5%	1/4W
R315	1-249-407-11	CARBON	150	5%	1/4W
R316	1-249-407-11	CARBON	150	5%	1/4W
R317	1-249-407-11	CARBON	150	5%	1/4W
R318	1-249-429-11	CARBON	10K	5%	1/4W
R319	1-249-409-11	CARBON	220	5%	1/4W
R320	1-249-417-11	CARBON	1K	5%	1/4W
R321	1-249-421-11	CARBON	2.2K	5%	1/4W
R322	1-249-420-11	CARBON	1.8K	5%	1/4W
R323	1-249-421-11	CARBON	2.2K	5%	1/4W
R324	1-249-426-11	CARBON	5.6K	5%	1/4W
R325	1-249-429-11	CARBON	10K	5%	1/4W
R326	1-249-419-11	CARBON	1.5K	5%	1/4W
R327	1-249-427-11	CARBON	6.8K	5%	1/4W
R328	1-249-397-11	CARBON	22	5%	1/4W
R329	1-249-397-11	CARBON	22	5%	1/4W
R330	1-249-397-11	CARBON	22	5%	1/4W
R331	1-249-418-11	CARBON	1.2K	5%	1/4W
R332	1-249-401-11	CARBON	47	5%	1/4W
R333	1-249-412-11	CARBON	390	5%	1/4W
R334	1-249-408-11	CARBON	180	5%	1/4W
R335	1-249-415-11	CARBON	680	5%	1/4W
R336	1-249-418-11	CARBON	1.2K	5%	1/4W
R337	1-215-438-00	CARBON	5.1K	5%	1/4W
R338	1-249-429-11	CARBON	10K	5%	1/4W
R344	1-249-437-11	CARBON	47K	5%	1/4W
R346	1-249-419-11	CARBON	1.5K	5%	1/4W
R347	1-249-429-11	CARBON	10K	5%	1/4W
R348	1-249-437-11	CARBON	47K	5%	1/4W
R349	1-249-415-11	CARBON	680	5%	1/4W
R350	1-249-415-11	CARBON	680	5%	1/4W
R351	1-249-409-11	CARBON	220	5%	1/4W
R352	1-247-891-00	CARBON	330K	5%	1/4W
R353	1-247-891-00	CARBON	330K	5%	1/4W

Remark

Ref.No. Part No. Description

Remark

R356	1-249-427-11	CARBON	6.8K	5%	1/4W
R357	1-249-409-11	CARBON	220	5%	1/4W
R358	1-249-409-11	CARBON	220	5%	1/4W
R361	1-249-418-11	CARBON	1.2K	5%	1/4W
R362	1-249-421-11	CARBON	2.2K	5%	1/4W
R363	1-249-418-11	CARBON	1.2K	5%	1/4W
R367	1-249-409-11	CARBON	220	5%	1/4W
R368	1-249-417-11	CARBON	1K	5%	1/4W
R369	1-249-417-11	CARBON	1K	5%	1/4W
R370	1-249-418-11	CARBON	1.2K	5%	1/4W
R371	1-249-417-11	CARBON	1K	5%	1/4W
R376	1-249-429-11	CARBON	10K	5%	1/4W
R378	1-249-441-11	CARBON	100K	5%	1/4W
R379	1-249-441-11	CARBON	100K	5%	1/4W
R380	1-249-426-11	CARBON	5.6K	5%	1/4W
R381	1-249-439-11	CARBON	68K	5%	1/4W
R382	1-247-885-00	CARBON	180K	5%	1/4W
R383	1-215-483-00	CARBON	390K	5%	1/4W
R385	1-249-435-11	CARBON	33K	5%	1/4W
R389	1-247-883-00	CARBON	150K	5%	1/4W
R391	1-249-404-00	CARBON	82	5%	1/4W
R392	1-249-402-11	CARBON	56	5%	1/4W
R393	1-249-402-11	CARBON	56	5%	1/4W
R394	1-249-402-11	CARBON	56	5%	1/4W
R398	1-249-433-11	CARBON	22K	5%	1/4W
R1324	1-249-419-11	CARBON	1.5K	5%	1/4W

VARIABLE RESISTOR

RV331 1-230-504-11 RES, ADJ, CARBON 220

TRANSFORMER

T331 1-404-584-11 COIL

CRYSTAL

X332 1-567-131-00 OSCILLATOR, CRYSTAL

YC MODULE

YCM301 1-235-753-21 YC MODULE

*1-625-208-11 Z BOARD
*****CONNECTORCNZ43 *1-564-881-11 PLUG, CONNECTOR 4P
CNZ44 *1-564-881-11 PLUG, CONNECTOR 4P

*1-625-200-11 F2 BOARD
*****CONNECTOR

CNF262*1-566-664-11 PIN, CONNECTOR 4P

SWITCH

S1701A 1-571-410-11 SWITCH, PUSH (AC POWER)(1 KEY)

F1 A

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
	*1-625-199-11	F1 BOARD *****		C111	1-101-003-00	CERAMIC 0.0047MF	50V
				C112	1-101-003-00	CERAMIC 0.0047MF	50V
				C113	1-101-003-00	CERAMIC 0.0047MF	50V
				C114	1-124-963-11	ELECT 33MF	20% 16V
				C117	1-102-978-00	CERAMIC 220PF	5% 50V
		CAPACITOR		C118	1-101-880-00	CERAMIC 47PF	5% 50V
C1601A	1-136-518-11	FILM 0.33MF 20% 300V		C119	1-126-101-11	ELECT 100MF	20% 16V
C1602A	1-136-519-11	FILM 0.47MF 20% 300V		C120	1-124-925-11	ELECT 2.2MF	20% 50V
C1603A	1-162-578-51	CERAMIC 0.0047MF 20% 400V		C121	1-101-003-00	CERAMIC 0.0047MF	50V
C1604A	1-162-578-51	CERAMIC 0.0047MF 20% 400V		C122	1-101-003-00	CERAMIC 0.0047MF	50V
C1605A	1-162-578-51	CERAMIC 0.0047MF 20% 400V		C123	1-101-003-00	CERAMIC 0.0047MF	50V
C1606A	1-162-578-51	CERAMIC 0.0047MF 20% 400V		C124	1-101-888-00	CERAMIC 68PF	5% 50V
		CONNECTOR		C125	1-101-888-00	CERAMIC 68PF	5% 50V
CNF61	*1-566-664-11	PIN, CONNECTOR 4P		C127	1-101-003-00	CERAMIC 0.0047MF	50V
CNF64	*1-506-349-21	3P PLUG (L)		C128	1-124-963-11	ELECT 33MF	20% 16V
CNF65	*1-508-765-00	3P PLUG (M)		C129	1-101-888-00	CERAMIC 68PF	5% 50V
CNF66	*1-508-786-00	2P PLUG (M)		C130	1-101-004-00	CERAMIC 0.01MF	50V
CNF67	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		C131	1-101-006-00	CERAMIC 0.047MF	50V
CNF162	*1-506-347-21	4P PLUG		C132	1-124-499-11	ELECT 1MF	20% 50V
		FUSE		C133	1-101-003-00	CERAMIC 0.0047MF	50V
F1601A	1-532-350-11	FUSE, TIME-LAG 4A/250V		C134	1-124-499-11	ELECT 1MF	20% 50V
	1-533-149-00	HOLDER, FUSE; F1601		C135	1-101-004-00	CERAMIC 0.01MF	50V
		FILTER		C136	1-101-006-00	CERAMIC 0.047MF	50V
LF1601A	1-421-866-12	LFT		C137	1-102-961-00	CERAMIC 27PF	5% 50V
LF1602A	1-421-776-11	LFT		C138	1-124-499-11	ELECT 1MF	20% 50V
		RESISTOR		C139	1-123-875-11	ELECT 10MF	20% 50V
R1601A	1-247-879-91	CARBON 100K 5% 1/4W		C140	1-108-614-91	MYLAR 0.001MF	10% 100V
R1602A	1-244-945-91	CARBON 1M 5% 1/2W		C141	1-129-794-00	FILM 0.0033MF	2% 100V
R1603A	1-217-328-11	WIREWOUND 2.7 10% 7W F		C142	1-102-816-00	CERAMIC 120PF	5% 50V
R1604A	1-247-879-91	CARBON 100K 5% 1/4W		C143	1-101-361-00	CERAMIC 150PF	5% 50V
R1605A	1-247-289-11	CARBON 8.2M 5% 1W		C144	1-124-477-11	ELECT 47MF	20% 16V
R1606A	1-217-777-11	WIREWOUND 100 10% 10W F		C145	1-124-477-11	ELECT 47MF	20% 16V
		THERMISTOR		C146	1-124-477-11	ELECT 47MF	20% 16V
THP601A	1-806-387-11	THERMISTOR (POSITIVE)		C147	1-124-477-11	ELECT 47MF	20% 16V
		*****		C148	1-123-875-11	ELECT 10MF	20% 50V
	*A-1296-317-A	A BOARD, COMPLETE *****		C149	1-136-153-00	FILM 0.01MF	5% 50V
	*4-380-698-01	CASE (MAIN), SHIELD, A1		C150	1-136-153-00	FILM 0.01MF	5% 50V
	*4-380-699-01	CASE (UPPER LID), SHIELD, A1		C151	1-124-908-11	ELECT 22MF	20% 50V
	*4-382-701-01	CASE (BOTTOM LID), SHIELD, A2		C152	1-124-908-11	ELECT 22MF	20% 50V
		CAPACITOR		C153	1-136-165-00	FILM 0.1MF	5% 50V
C101	1-124-908-11	ELECT 22MF 20% 50V		C154	1-136-169-00	FILM 0.22MF	5% 50V
C102	1-126-103-11	ELECT 470MF 20% 16V		C155	1-124-963-11	ELECT 33MF	20% 16V
C103	1-110-175-81	MYLAR 0.1MF 10% 100V		C156	1-136-157-00	FILM 0.022MF	5% 50V
C104	1-110-173-81	MYLAR 0.068MF 10% 100V		C157	1-136-161-00	FILM 0.047MF	5% 50V
C105	1-110-173-81	MYLAR 0.068MF 10% 100V		C158	1-124-963-11	ELECT 33MF	20% 16V
C106	1-101-004-00	CERAMIC 0.01MF 50V		C159	1-124-477-11	ELECT 47MF	20% 16V
C107	1-102-963-00	CERAMIC 33PF 5% 50V		C161	1-124-477-11	ELECT 47MF	20% 16V
C108	1-124-963-11	ELECT 33MF 20% 16V		C162	1-102-816-00	CERAMIC 120PF	5% 50V
C109	1-101-003-00	CERAMIC 0.0047MF 50V		C163	1-124-927-11	ELECT 4.7MF	20% 50V
C110	1-124-499-11	ELECT 1MF 20% 50V		C164	1-110-190-81	MYLAR 0.01MF	10% 400V
				C165	1-130-853-00	FILM 0.0047MF	5% 50V
				C167	1-124-499-11	ELECT 1MF	20% 50V
				C168	1-110-179-81	MYLAR 0.22MF	10% 100V
				C169	1-123-875-11	ELECT 10MF	20% 50V
				C170	1-101-004-00	CERAMIC 0.01MF	50V
				C171	1-101-004-00	CERAMIC 0.01MF	50V
				C174	1-124-499-11	ELECT 1MF	20% 50V
				C177	1-102-119-00	CERAMIC 0.0015MF	10% 50V
				C187	1-101-003-00	CERAMIC 0.0047MF	50V
				C188	1-124-963-11	ELECT 33MF	20% 16V
				C189	1-124-963-11	ELECT 33MF	20% 16V
				C190	1-110-175-81	MYLAR 0.1MF	10% 100V

A

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>FILTER</u>				<u>FILTER</u>			
CD101	1-404-750-11	DISCRIMINATOR, CERAMIC		R105	1-249-418-11	CARBON 1.2K 5% 1/4W	
CD102	1-404-745-11	DISCRIMINATOR, CERAMIC		R106	1-247-891-00	CARBON 330K 5% 1/4W	
CD103	1-404-746-11	DISCRIMINATOR, CERAMIC		R107	1-249-421-11	CARBON 2.2K 5% 1/4W	
CF101	1-404-134-00	TRAP, CERAMIC (5.5MHZ)		R108	1-249-421-11	CARBON 2.2K 5% 1/4W	
CF103	1-527-840-00	FILTER, CERAMIC		R109	1-249-423-11	CARBON 3.3K 5% 1/4W	
CF104	1-527-839-00	FILTER, CERAMIC		R110	1-249-412-11	CARBON 390 5% 1/4W	
CF105	1-527-839-00	FILTER, CERAMIC		R111	1-249-418-11	CARBON 1.2K 5% 1/4W	
SWF101	1-404-717-11	FILTER, SURFACE WAVE		R112	1-249-421-11	CARBON 2.2K 5% 1/4W	
<u>CONNECTOR</u>				R113	1-249-411-11	CARBON 330 5% 1/4W	
CNA11	*1-566-659-11	CONNECTOR, HINGE (SOCKET) 18P		R114	1-249-413-11	CARBON 470 5% 1/4W	
<u>DIODE</u>				R115	1-249-413-11	CARBON 470 5% 1/4W	
D105	8-719-109-92	DIODE RD6.2ES-B1		R116	1-249-419-11	CARBON 1.5K 5% 1/4W	
D106	8-719-911-19	DIODE 1SS119		R117	1-249-431-11	CARBON 15K 5% 1/4W	
D108	8-719-000-06	DIODE MC921		R118	1-249-425-11	CARBON 4.7K 5% 1/4W	
<u>IC</u>				R119	1-249-417-11	CARBON 1K 5% 1/4W	
IC101	8-759-909-08	IC TDA3541		R121	1-249-429-11	CARBON 10K 5% 1/4W	
IC102	8-759-941-96	IC TDA2556		R122	1-249-436-11	CARBON 39K 5% 1/4W	
IC103	8-759-013-18	IC TDA6600		R123	1-249-417-11	CARBON 1K 5% 1/4W	
IC104	8-759-946-99	IC TDA2595-V7		R124	1-249-423-11	CARBON 3.3K 5% 1/4W	
IC105	8-759-003-90	IC TBA129		R125	1-249-429-11	CARBON 10K 5% 1/4W	
<u>COIL</u>				R126	1-249-436-11	CARBON 39K 5% 1/4W	
L101	1-408-226-00	INDUCTOR 82UH		R127	1-249-432-11	CARBON 18K 5% 1/4W	
L102	1-410-116-11	INDUCTOR 560UH		R128	1-249-432-11	CARBON 18K 5% 1/4W	
L103	1-410-467-21	INDUCTOR 5.6UH		R129	1-249-429-11	CARBON 10K 5% 1/4W	
L104	1-408-411-00	INDUCTOR 15UH		R130	1-249-429-11	CARBON 10K 5% 1/4W	
L105	1-410-482-31	INDUCTOR 100UH		R132	1-249-414-11	CARBON 560 5% 1/4W	
L106	1-410-476-11	INDUCTOR 33UH		R133	1-249-425-11	CARBON 4.7K 5% 1/4W	
L107	1-410-467-21	INDUCTOR 5.6UH		R134	1-249-414-11	CARBON 560 5% 1/4W	
L108	1-410-473-11	INDUCTOR 18UH		R135	1-249-419-11	CARBON 1.5K 5% 1/4W	
L109	1-410-473-11	INDUCTOR 18UH		R136	1-249-414-11	CARBON 560 5% 1/4W	
L110	1-410-064-11	INDUCTOR 2.7MMH		R137	1-249-414-11	CARBON 560 5% 1/4W	
L111	1-410-482-31	INDUCTOR 100UH		R138	1-249-419-11	CARBON 1.5K 5% 1/4W	
L112	1-410-471-11	INDUCTOR 12UH		R140	1-249-441-11	CARBON 100K 5% 1/4W	
L113	1-410-460-11	INDUCTOR 1.5UH		R141	1-249-425-11	CARBON 4.7K 5% 1/4W	
<u>TRANSISTOR</u>				R142	1-249-441-11	CARBON 100K 5% 1/4W	
Q101	8-729-900-61	TRANSISTOR DTA114ES		R143	1-249-441-11	CARBON 100K 5% 1/4W	
Q102	8-729-900-61	TRANSISTOR DTA114ES		R144	1-249-422-11	CARBON 2.7K 5% 1/4W	
Q104	8-729-900-61	TRANSISTOR DTA114ES		R146	1-249-424-11	CARBON 3.9K 5% 1/4W	
Q105	8-729-178-54	TRANSISTOR 2SC2785		R148	1-249-413-11	CARBON 470 5% 1/4W	
Q106	8-729-178-54	TRANSISTOR 2SC2785		R150	1-249-423-11	CARBON 3.3K 5% 1/4W	
Q107	8-729-117-54	TRANSISTOR 2SA1175		R151	1-249-423-11	CARBON 3.3K 5% 1/4W	
Q108	8-729-900-65	TRANSISTOR DTA144ES		R152	1-249-431-11	CARBON 15K 5% 1/4W	
Q109	8-729-900-89	TRANSISTOR DTC144ES		R153	1-249-416-11	CARBON 820 5% 1/4W	
Q110	8-729-117-54	TRANSISTOR 2SA1175		R154	1-249-441-11	CARBON 100K 5% 1/4W	
Q111	8-729-900-89	TRANSISTOR DTC144ES		R155	1-249-430-11	CARBON 12K 5% 1/4W	
Q112	8-729-178-54	TRANSISTOR 2SC2785		R156	1-247-881-00	CARBON 120K 5% 1/4W	
Q113	8-729-178-54	TRANSISTOR 2SC2785		R160	1-249-417-11	CARBON 1K 5% 1/4W	
<u>RESISTOR</u>				R162	1-249-415-11	CARBON 680 5% 1/4W	
R101	1-249-405-11	CARBON 100 5% 1/4W		R163	1-249-424-11	CARBON 3.9K 5% 1/4W	
R102	1-249-423-11	CARBON 3.3K 5% 1/4W		R165	1-249-423-11	CARBON 3.3K 5% 1/4W	
R103	1-249-433-11	CARBON 22K 5% 1/4W		R166	1-249-437-11	CARBON 47K 5% 1/4W	
R104	1-249-429-11	CARBON 10K 5% 1/4W		R172	1-249-417-11	CARBON 1K 5% 1/4W	
				R173	1-249-414-11	CARBON 560 5% 1/4W	
				R188	1-249-419-11	CARBON 1.5K 5% 1/4W	
				R189	1-249-419-11	CARBON 1.5K 5% 1/4W	
				<u>VARIABLE RESISTOR</u>			
				RV101	1-237-753-11	RES, ADJ, CARBON 47K	
				RV102	1-237-751-11	RES, ADJ, CARBON 10K	
				RV103	1-237-753-11	RES, ADJ, CARBON 47K	
				<u>TRANSFORMER</u>			
				T101	1-404-493-00	COIL	

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
T102	1-404-493-00	COIL		TRANSISTOR			
T103	1-404-493-00	COIL		Q702	8-729-178-54	TRANSISTOR 2SC2785	
TUNER				Q703	8-729-326-11	TRANSISTOR 2SC2611	
TU101	1-463-881-11	TUNER, ET (UV-617)		Q704	8-729-200-17	TRANSISTOR 2SA1091	
*****				Q705	8-729-178-54	TRANSISTOR 2SC2785	
*****				Q706	8-729-326-11	TRANSISTOR 2SC2611	
*****				Q707	8-729-200-17	TRANSISTOR 2SA1091	
*****				Q708	8-729-178-54	TRANSISTOR 2SC2785	
*****				Q709	8-729-326-11	TRANSISTOR 2SC2611	
*****				Q710	8-729-200-17	TRANSISTOR 2SA1091	
*****				RESISTOR			
*****				R704	1-216-486-00	METAL OXIDE 8.2K 5% 3W	F
*****				R705	1-202-824-00	SOL ID 3.3K 10% 1/2W	
*****				R706	1-249-409-11	CARBON 220 5% 1/4W	
*****				R707	1-249-412-11	CARBON 390 5% 1/4W	
*****				R708	1-249-401-11	CARBON 47 5% 1/4W	
*****				R709	1-202-844-00	SOL ID 330K 10% 1/2W	
*****				R710	1-215-465-00	METAL 68K 1% 1/6W	
*****				R712	1-249-417-11	CARBON 1K 5% 1/4W	
*****				R713	1-215-471-00	METAL 120K 1% 1/6W	
*****				R714	1-216-486-00	METAL OXIDE 8.2K 5% 3W	F
*****				R715	1-202-824-00	SOL ID 3.3K 10% 1/2W	
*****				R716	1-249-409-11	CARBON 220 5% 1/4W	
*****				R717	1-249-415-11	CARBON 680 5% 1/4W	
*****				R718	1-202-814-11	SOL ID 33K 10% 1/2W	
*****				R719	1-249-401-11	CARBON 47 5% 1/4W	
*****				R720	1-249-423-11	CARBON 3.3K 5% 1/4W	
*****				R721	1-202-842-11	SOL ID 220K 10% 1/2W	
*****				R722	1-202-848-00	SOL ID 680K 10% 1/2W	
*****				R723	1-249-417-11	CARBON 1K 5% 1/4W	
*****				R724	1-202-846-00	SOL ID 470K 10% 1/2W	
*****				R725	1-202-838-00	SOL ID 100K 10% 1/2W	
*****				R726	1-202-824-00	SOL ID 3.3K 10% 1/2W	
*****				R727	1-249-409-11	CARBON 220 5% 1/4W	
*****				R728	1-216-347-11	METAL OXIDE 0.68 5% 1W	F
*****				R729	1-249-416-11	CARBON 820 5% 1/4W	
*****				R730	1-249-401-11	CARBON 47 5% 1/4W	
*****				R731	1-249-423-11	CARBON 3.3K 5% 1/4W	
*****				R732	1-249-415-11	CARBON 680 5% 1/4W	
*****				R733	1-249-415-11	CARBON 680 5% 1/4W	
*****				R734	1-249-405-11	CARBON 100 5% 1/4W	
*****				R735	1-215-493-00	METAL 1M 1% 1/6W	
*****				R736	1-216-486-00	METAL OXIDE 8.2K 5% 3W	F
*****				R737	1-215-481-00	METAL 330K 1% 1/6W	
*****				R739	1-249-417-11	CARBON 1K 5% 1/4W	
*****				VARIABLE RESISTOR			
*****				RV701	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M	
*****				RV702	1-230-619-11	RES, ADJ, METAL GLAZE 110M	
*****				RV703	1-237-749-11	RES, ADJ, CARBON 2200	
*****				RV704	1-237-749-11	RES, ADJ, CARBON 2200	
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The components identified by shading and mark Δ are critical for safety.
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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
CAPACITOR							
C001	1-102-973-00	CERAMIC	100PF 5% 50V	C523	1-108-614-91	MYLAR	0.001MF 10% 100V
C003	1-110-175-81	MYLAR	0.1MF 10% 100V	C524	1-106-355-12	MYLAR	0.0033MF 5% 50V
C004	1-123-875-11	ELECT	10MF 20% 50V	C525	1-102-973-00	CERAMIC	100PF 5% 50V
C005	1-102-074-00	CERAMIC	0.001MF 10% 50V	C526	1-102-947-00	CERAMIC	10PF 0.5PF 50V
				C527	1-110-175-81	MYLAR	0.1MF 10% 100V
C007	1-110-171-81	MYLAR	0.047MF 10% 100V	C531	1-124-117-00	ELECT	680MF 10% 25V
C008	1-101-880-00	CERAMIC	47PF 5% 50V	C532	1-124-122-11	ELECT	100MF 20% 50V
C009	1-101-884-00	CERAMIC	56PF 5% 50V	C533	1-110-173-81	MYLAR	0.068MF 10% 100V
C010	1-126-101-11	ELECT	100MF 20% 16V	C534	1-124-120-11	ELECT	220MF 20% 16V
C011	1-101-004-00	CERAMIC	0.01MF 50V	C536	1-131-365-00	TANTALUM	10MF 10% 16V
C012	1-126-101-11	ELECT	100MF 20% 16V	C537	1-124-499-11	ELECT	1MF 20% 50V
C013	1-101-004-00	CERAMIC	0.01MF 50V	C538	1-108-614-91	MYLAR	0.001MF 10% 100V
C014	1-124-463-00	ELECT	0.1MF 20% 50V	C539	1-102-820-00	CERAMIC	330PF 5% 50V
C015	1-126-101-11	ELECT	100MF 20% 16V	C591	1-123-875-11	ELECT	10MF 20% 50V
C016	1-101-004-00	CERAMIC	0.01MF 50V	C592	1-124-477-11	ELECT	47MF 20% 16V
C017	1-123-875-11	ELECT	10MF 20% 50V	C593	1-102-820-00	CERAMIC	330PF 5% 50V
C018	1-102-980-00	CERAMIC	270PF 5% 50V	C601	1-161-964-00	CERAMIC	0.0047MF 250V
C019	1-110-171-81	MYLAR	0.047MF 10% 100V	C602	1-161-964-00	CERAMIC	0.0047MF 250V
C020	1-102-973-00	CERAMIC	100PF 5% 50V	C603	1-161-964-00	CERAMIC	0.0047MF 250V
C021	1-102-973-00	CERAMIC	100PF 5% 50V	C604	1-125-318-00	ELECT(BLOCK)	220MF 20% 400V
C022	1-124-477-11	ELECT	47MF 20% 16V	C605	1-124-122-11	ELECT	100MF 20% 50V
C023	1-124-499-11	ELECT	1MF 20% 50V	C606	1-110-175-81	MYLAR	0.1MF 10% 100V
C024	1-124-499-11	ELECT	1MF 20% 50V	C607	1-130-019-00	FILM	0.0012MF 5% 50V
C025	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C608	1-123-875-11	ELECT	10MF 20% 50V
C026	1-102-125-00	CERAMIC	0.0047MF 10% 50V	C611	1-124-122-11	ELECT	100MF 20% 50V
C027	1-110-175-81	MYLAR	0.1MF 10% 100V	C612	1-162-115-00	CERAMIC	330PF 10% 2KV
C028	1-101-361-00	CERAMIC	150PF 5% 50V	C613	1-136-088-00	FILM	0.0022MF 3% 2KV
C029	1-102-121-00	CERAMIC	0.0022MF 10% 50V	C614	1-102-030-00	CERAMIC	330PF 10% 500V
C251	1-124-927-11	ELECT	4.7MF 20% 50V	C615	1-124-557-11	ELECT	1000MF 20% 25V
C252	1-124-927-11	ELECT	4.7MF 20% 50V	C616	1-102-030-00	CERAMIC	330PF 10% 500V
C253	1-124-122-11	ELECT	100MF 20% 50V	C618	1-124-637-11	ELECT	1000MF 20% 50V
C254	1-124-927-11	ELECT	4.7MF 20% 50V	C619	1-124-556-11	ELECT	2200MF 20% 16V
C255	1-124-927-11	ELECT	4.7MF 20% 50V	C620	1-102-074-00	CERAMIC	0.001MF 10% 50V
C256	1-110-175-81	MYLAR	0.1MF 10% 100V	C621	1-124-347-00	ELECT	100MF 20% 160V
C257	1-101-004-00	CERAMIC	0.01MF 50V	C622	1-124-556-11	ELECT	2200MF 20% 16V
C258	1-110-175-81	MYLAR	0.1MF 10% 100V	C623	1-124-910-11	ELECT	47MF 20% 50V
C260	1-110-175-81	MYLAR	0.1MF 10% 100V	C624	1-124-122-11	ELECT	100MF 20% 50V
C265	1-102-074-00	CERAMIC	0.001MF 10% 50V	C625	1-124-360-00	ELECT	1000MF 20% 16V
C266	1-102-074-00	CERAMIC	0.001MF 10% 50V	C626	1-123-875-11	ELECT	10MF 20% 50V
C401	1-124-477-11	ELECT	47MF 20% 16V	C627	1-102-074-00	CERAMIC	0.001MF 10% 50V
C403	1-124-477-11	ELECT	47MF 20% 16V	C628	1-124-360-00	ELECT	1000MF 20% 16V
C501	1-124-927-11	ELECT	4.7MF 20% 50V	C631	1-124-927-11	ELECT	4.7MF 20% 50V
C502	1-124-927-11	ELECT	4.7MF 20% 50V	C632	1-102-074-00	CERAMIC	0.001MF 10% 50V
C503	1-110-192-81	MYLAR	0.015MF 10% 400V	C633	1-124-927-11	ELECT	4.7MF 20% 50V
C504	1-101-361-00	CERAMIC	150PF 5% 50V	C636	1-123-258-91	ELECT	3.3MF 20% 50V
C505	1-108-794-91	MYLAR	0.0015MF 5% 50V	C801	1-126-105-11	ELECT	1000MF 20% 35V
C506	1-110-182-81	MYLAR	0.022MF 10% 250V	C802	1-102-030-00	CERAMIC	330PF 10% 500V
C507	1-110-327-81	MYLAR	0.33MF 10% 100V	C804	1-123-948-00	ELECT	22MF 20% 250V
C508	1-110-182-81	MYLAR	0.022MF 10% 250V	C805	1-162-114-00	CERAMIC	0.0047MF 2KV
C509	1-110-175-81	MYLAR	0.1MF 10% 100V	C806	1-110-175-81	MYLAR	0.1MF 10% 100V
C510	1-161-959-00	CERAMIC	22PF 10% 500V	C807	1-106-395-00	MYLAR	0.15MF 10% 200V
C511	1-108-620-91	MYLAR	0.0033MF 10% 100V	C810	1-123-024-00	ELECT	33MF 10% 160V
C512	1-110-175-81	MYLAR	0.1MF 10% 100V	C811	1-136-117-00	FILM	2MF 5% 200V
C513	1-108-614-91	MYLAR	0.001MF 10% 100V	C812	1-123-943-00	ELECT	1MF 20% 250V
C514	1-110-179-81	MYLAR	0.22MF 10% 100V	C813	1-102-212-00	CERAMIC	820PF 10% 500V
C515	1-124-499-11	ELECT	1MF 20% 50V	C814	1-161-731-00	CERAMIC	0.001MF 10% 2KV
C516	1-108-614-91	MYLAR	0.001MF 10% 100V	C815	1-136-116-00	FILM	1MF 5% 200V
C517	1-124-252-00	ELECT	0.33MF 20% 50V	C817	1-136-565-11	FILM	0.015MF 3% 1.4KV
C518	1-124-902-00	ELECT	0.47MF 20% 50V	C818	1-129-721-00	FILM	0.039MF 10% 630V
C519	1-136-173-00	FILM	0.47MF 5% 50V	C819 Δ	1-161-731-11	CERAMIC	0.001MF 10% 2KV
C520	1-102-121-00	CERAMIC	0.0022MF 10% 50V	C820	1-110-189-81	MYLAR	0.0082MF 10% 400V
C521	1-110-175-81	MYLAR	0.1MF 10% 100V	C821 Δ	1-162-116-51	CERAMIC	680PF 10% 2KV
C522	1-124-122-11	ELECT	100MF 20% 50V	C822	1-102-114-00	CERAMIC	470PF 10% 50V
				C823	1-110-186-81	MYLAR	0.0047MF 10% 400V
				C824	1-102-212-00	CERAMIC	820PF 10% 500V

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
C825	1-110-182-81	MYLAR 0.022MF 10%	250V	D613	8-719-924-06	DIODE ERC24-06S	
C826	1-123-875-11	ELECT 10MF 20%	50V	D614	8-719-924-06	DIODE ERC24-06S	
				D615	8-719-109-90	DIODE RD5.6ES-B3	
				D616	8-719-109-93	DIODE RD6.2ES-B2	
				D617	8-719-109-93	DIODE RD6.2ES-B2	
<u>FILTER</u>							
CF001	1-567-686-11	OSCILLATOR, CERAMIC		D618	8-719-109-89	DIODE RD5.6ES-B2	
CF501	1-567-888-11	OSCILLATOR, CERAMIC		D619	8-719-109-89	DIODE RD5.6ES-B2	
				D620	8-719-000-12	DIODE MC931	
				D621	8-719-000-12	DIODE MC931	
				D622	8-719-911-19	DIODE 1SS119	
<u>CONNECTOR</u>							
CN801	*1-508-765-00	3P PLUG (M)		D623	8-719-911-19	DIODE 1SS119	
CND01	*1-564-884-11	PLUG, CONNECTOR 7P		D624	8-719-911-19	DIODE 1SS119	
CND02	*1-564-886-11	PLUG, CONNECTOR 9P		D627	8-719-911-19	DIODE 1SS119	
CND11	*1-566-660-11	CONNECTOR, HINGE (PLUG) 18P		D630	8-719-110-39	DIODE RD15ES-B1	
CND12	*1-564-884-21	PLUG, CONNECTOR 7P		D632	8-719-110-16	DIODE RD10ES-B1	
CND21	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P		D633	8-719-911-19	DIODE 1SS119	
CND23	*1-560-124-00	PLUG, CONNECTOR (2.5MM PITCH)		D801	8-719-924-06	DIODE ERC24-06S	
CND31	*1-564-346-00	CONNECTOR, BOARD TO BOARD 18P		D802	8-719-924-06	DIODE ERC24-06S	
CND41	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)		D803	8-719-300-65	DIODE ES1F	
CND45	*1-564-882-11	PLUG, CONNECTOR 5P		D804	8-719-911-55	DIODE U05G	
CND51	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)		D805	8-719-911-55	DIODE U05G	
CND64	*1-506-349-21	3P PLUG (L)		D806	8-719-945-80	DIODE ERC06-15S	
CND68	*1-564-879-11	PLUG, CONNECTOR 2P		D807	8-719-945-80	DIODE ERC06-15S	
CND82	*1-508-765-00	3P PLUG (M)		D808	8-719-928-08	DIODE ERD28-08S	
CND83	*1-508-786-00	2P PLUG (M)		D809	8-719-924-06	DIODE ERC24-06S	
CND84	*1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P		<u>IC</u>			
CND91	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		IC001	8-759-630-06	IC M50436-614SP	
CND92	*1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P		IC002	8-759-971-68	IC M888503H-597G	
CND94	*1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)		IC003	8-759-603-41	IC M58655P	
				IC004	8-759-157-40	IC UPC574J	
<u>DIODE</u>				IC251	8-759-803-31	IC LA4280	
D001	8-719-911-19	DIODE 1SS119					
D002	8-719-911-19	DIODE 1SS119					
D003	8-719-911-19	DIODE 1SS119					
D004	8-719-911-19	DIODE 1SS119					
D005	8-719-109-71	DIODE RD3.9ES-B1					
D007	8-719-109-89	DIODE RD5.6ES-B2					
D008	8-719-110-85	DIODE RD36ES-B4					
D009	8-719-109-89	DIODE RD5.6ES-B2					
D011	8-719-911-19	DIODE 1SS119					
D012	8-719-911-19	DIODE 1SS119					
D254	8-719-110-14	DIODE RD9.1ES-B3					
D501	8-719-911-19	DIODE 1SS119					
D504	8-719-911-55	DIODE U05G					
D506	8-719-000-12	DIODE MC931					
D508	8-719-911-19	DIODE 1SS119					
D509	8-719-911-19	DIODE 1SS119					
D511	8-719-911-55	DIODE U05G					
D512	8-719-911-55	DIODE U05G					
D513	8-719-109-81	DIODE RD4.7ES-B2					
D591	8-719-911-19	DIODE 1SS119					
D592	8-719-911-19	DIODE 1SS119					
D593	8-719-911-19	DIODE 1SS119					
D601	8-719-946-90	DIODE KBU4JL-6088					
D602	8-719-924-06	DIODE ERC24-06S					
D603	8-719-911-55	DIODE U05G					
D604	8-719-911-55	DIODE U05G					
D605	8-719-911-55	DIODE U05G					
D606	8-719-924-06	DIODE ERC24-06S					
D607	8-719-924-06	DIODE ERC24-06S					
D608	8-719-925-06	DIODE ERC25-06S					
D610	8-719-300-59	DIODE CTU-12S					
D611	8-719-928-08	DIODE ERD28-06S					
D612	8-719-300-59	DIODE CTU-12S					

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Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
TRANSISTOR							
Q001	8-729-178-54	TRANSISTOR 2SC2785		R034	1-249-413-11	CARBON 470 5% 1/4W	
Q002	8-729-117-54	TRANSISTOR 2SA1175		R035	1-249-431-11	CARBON 15K 5% 1/4W	
Q003	8-729-117-54	TRANSISTOR 2SA1175		R036	1-249-421-11	CARBON 2.2K 5% 1/4W	
Q004	8-729-117-54	TRANSISTOR 2SA1175		R037	1-249-417-11	CARBON 1K 5% 1/4W	
Q252	8-729-900-36	TRANSISTOR DTC124ES		R038	1-249-417-11	CARBON 1K 5% 1/4W	
Q501	8-729-117-54	TRANSISTOR 2SA1175		R039	1-249-417-11	CARBON 1K 5% 1/4W	
Q502	8-729-117-54	TRANSISTOR 2SA1175		R040	1-249-417-11	CARBON 1K 5% 1/4W	
Q503	8-729-178-54	TRANSISTOR 2SC2785		R041	1-249-417-11	CARBON 1K 5% 1/4W	
Q505	8-729-177-43	TRANSISTOR 2SD774		R042	1-249-417-11	CARBON 1K 5% 1/4W	
Q506	8-729-103-43	TRANSISTOR 2SB734		R043	1-249-417-11	CARBON 1K 5% 1/4W	
Q507	8-729-117-54	TRANSISTOR 2SA1175		R044	1-249-429-11	CARBON 10K 5% 1/4W	
Q591	8-729-178-54	TRANSISTOR 2SC2785		R045	1-249-417-11	CARBON 1K 5% 1/4W	
Q598	8-729-178-54	TRANSISTOR 2SC2785		R046	1-249-429-11	CARBON 10K 5% 1/4W	
Q601	8-729-904-32	TRANSISTOR 2SB1185-E		R048	1-249-417-11	CARBON 1K 5% 1/4W	
Q602	8-729-209-02	TRANSISTOR 2SD1548-LB		R049	1-249-417-11	CARBON 1K 5% 1/4W	
	*4-368-683-01	SPRING; Q602		R050	1-249-433-11	CARBON 22K 5% 1/4W	
Q603	8-729-904-32	TRANSISTOR 2SB1185-E		R051	1-249-429-11	CARBON 10K 5% 1/4W	
Q604	8-729-308-92	TRANSISTOR 2SD789-03C		R052	1-249-439-11	CARBON 68K 5% 1/4W	
Q605	8-729-178-54	TRANSISTOR 2SC2785		R053	1-249-437-11	CARBON 47K 5% 1/4W	
Q606	8-729-178-54	TRANSISTOR 2SC2785		R054	1-249-417-11	CARBON 1K 5% 1/4W	
Q607	8-729-904-27	TRANSISTOR 2SD1761-E		R056	1-249-440-11	CARBON 82K 5% 1/4W	
Q608	8-729-904-27	TRANSISTOR 2SD1761-E		R057	1-249-409-11	CARBON 220 5% 1/4W	
	*4-368-683-01	SPRING; Q608		R058	1-249-409-11	CARBON 220 5% 1/4W	
Q609	8-729-378-91	TRANSISTOR 2SD789-4		R059	1-249-435-11	CARBON 33K 5% 1/4W	
Q801	8-729-178-54	TRANSISTOR 2SC2785		R060	1-249-436-11	CARBON 39K 5% 1/4W	
Q804	8-729-304-50	TRANSISTOR 2SD1941-06		R061	1-249-417-11	CARBON 1K 5% 1/4W	
	*4-368-683-01	SPRING; Q804		R062	1-249-411-11	CARBON 330 5% 1/4W	
Q805	8-729-168-82	TRANSISTOR 2SC2688		R063	1-249-431-11	CARBON 15K 5% 1/4W	
				R064	1-249-429-11	CARBON 10K 5% 1/4W	
				R067	1-249-413-11	CARBON 470 5% 1/4W	
RESISTOR				R068	1-249-421-11	CARBON 2.2K 5% 1/4W	
R001	1-249-417-11	CARBON 1K 5% 1/4W		R069	1-249-423-11	CARBON 3.3K 5% 1/4W	
R002	1-249-417-11	CARBON 1K 5% 1/4W		R070	1-249-417-11	CARBON 1K 5% 1/4W	
R003	1-249-417-11	CARBON 1K 5% 1/4W		R071	1-249-417-11	CARBON 1K 5% 1/4W	
R004	1-249-417-11	CARBON 1K 5% 1/4W		R072	1-249-417-11	CARBON 1K 5% 1/4W	
R005	1-249-411-11	CARBON 330 5% 1/4W		R073	1-249-417-11	CARBON 1K 5% 1/4W	
R006	1-249-417-11	CARBON 1K 5% 1/4W		R074	1-249-417-11	CARBON 1K 5% 1/4W	
R007	1-249-405-11	CARBON 100 5% 1/4W		R075	1-249-417-11	CARBON 1K 5% 1/4W	
R008	1-249-417-11	CARBON 1K 5% 1/4W		R077	1-249-413-11	CARBON 470 5% 1/4W	
R009	1-249-417-11	CARBON 1K 5% 1/4W		R078	1-249-423-11	CARBON 3.3K 5% 1/4W	
R010	1-249-413-11	CARBON 470 5% 1/4W		R079	1-249-435-11	CARBON 33K 5% 1/4W	
R011	1-249-417-11	CARBON 1K 5% 1/4W		R080	1-249-429-11	CARBON 10K 5% 1/4W	
R012	1-249-417-11	CARBON 1K 5% 1/4W		R081	1-249-441-11	CARBON 100K 5% 1/4W	
R013	1-249-417-11	CARBON 1K 5% 1/4W		R083	1-249-429-11	CARBON 10K 5% 1/4W	
R014	1-249-417-11	CARBON 1K 5% 1/4W		R084	1-249-413-11	CARBON 470 5% 1/4W	
R016	1-249-429-11	CARBON 10K 5% 1/4W		R085	1-249-429-11	CARBON 10K 5% 1/4W	
R017	1-249-417-11	CARBON 1K 5% 1/4W		R086	1-249-417-11	CARBON 1K 5% 1/4W	
R018	1-249-417-11	CARBON 1K 5% 1/4W		R087	1-249-417-11	CARBON 1K 5% 1/4W	
R019	1-249-433-11	CARBON 22K 5% 1/4W		R088	1-249-425-11	CARBON 4.7K 5% 1/4W	
R020	1-249-433-11	CARBON 22K 5% 1/4W		R090	1-249-413-11	CARBON 470 5% 1/4W	
R021	1-249-433-11	CARBON 22K 5% 1/4W		R091	1-249-409-11	CARBON 220 5% 1/4W	
R022	1-249-433-11	CARBON 22K 5% 1/4W		R093	1-249-429-11	CARBON 10K 5% 1/4W	
R023	1-249-429-11	CARBON 10K 5% 1/4W		R094	1-249-429-11	CARBON 10K 5% 1/4W	
R024	1-249-429-11	CARBON 10K 5% 1/4W		R095	1-249-409-11	CARBON 220 5% 1/4W	
R025	1-249-417-11	CARBON 1K 5% 1/4W		R096	1-249-409-11	CARBON 220 5% 1/4W	
R026	1-249-417-11	CARBON 1K 5% 1/4W		R097	1-249-429-11	CARBON 10K 5% 1/4W	
R027	1-249-417-11	CARBON 1K 5% 1/4W		R098	1-249-429-11	CARBON 10K 5% 1/4W	
R028	1-249-417-11	CARBON 1K 5% 1/4W		R099	1-215-900-11	METAL OXIDE 22K 5% 2W F	
R029	1-249-417-11	CARBON 1K 5% 1/4W		R251	1-249-417-11	CARBON 1K 5% 1/4W	
R030	1-249-425-11	CARBON 4.7K 5% 1/4W		R252	1-249-413-11	CARBON 470 5% 1/4W	
R031	1-249-429-11	CARBON 10K 5% 1/4W		R253	1-249-413-11	CARBON 470 5% 1/4W	
R032	1-249-417-11	CARBON 1K 5% 1/4W		R255	1-249-385-11	CARBON 2.2 5% 1/4W F	
R033	1-249-413-11	CARBON 470 5% 1/4W		R256	1-249-385-11	CARBON 2.2 5% 1/4W F	
				R260	1-249-393-11	CARBON 10 5% 1/4W	
				R261	1-249-429-11	CARBON 10K 5% 1/4W	

D

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
R262	1-249-413-11	CARBON	470 5% 1/4W	R556	1-249-405-11	CARBON	100 5% 1/4W
R263	1-249-421-11	CARBON	2.2K 5% 1/4W	R557	1-249-425-11	CARBON	4.7K 5% 1/4W
R264	1-249-421-11	CARBON	2.2K 5% 1/4W	R558	1-247-895-00	CARBON	470K 5% 1/4W
R265	1-249-425-11	CARBON	4.7K 5% 1/4W	R559	1-249-427-11	CARBON	6.8K 5% 1/4W
R266	1-249-425-11	CARBON	4.7K 5% 1/4W	R560	1-249-411-11	CARBON	330 5% 1/4W
R401	1-249-434-11	CARBON	27K 5% 1/4W	R591	1-249-427-11	CARBON	6.8K 5% 1/4W
R402	1-249-435-11	CARBON	33K 5% 1/4W	R592	1-249-429-11	CARBON	10K 5% 1/4W
R410	1-249-413-11	CARBON	470 5% 1/4W	R593	1-249-429-11	CARBON	10K 5% 1/4W
R411	1-249-413-11	CARBON	470 5% 1/4W	R594	1-249-424-11	CARBON	3.9K 5% 1/4W
R412	1-249-413-11	CARBON	470 5% 1/4W	R595	1-249-417-11	CARBON	1K 5% 1/4W
R500	1-215-487-00	CARBON	560K 5% 1/4W	R596	1-249-425-11	CARBON	4.7K 5% 1/4W
R501	1-249-413-11	CARBON	470 5% 1/4W	R597	1-249-425-11	CARBON	4.7K 5% 1/4W
R502	1-249-409-11	CARBON	220 5% 1/4W	R598	1-249-405-11	CARBON	100 5% 1/4W
R503	1-249-410-11	CARBON	270 5% 1/4W	R599	1-249-405-11	CARBON	100 5% 1/4W
R504	1-215-427-00	METAL	1.8K 1% 1/6W	R602	1-215-901-00	METAL OXIDE	33K 5% 2W F
R505	1-249-431-11	CARBON	15K 5% 1/4W	R603	1-216-359-00	METAL OXIDE	6.8 5% 1W F
R506	1-249-428-11	CARBON	8.2K 5% 1/4W	R604	1-249-414-11	CARBON	560 5% 1/4W
R507	1-247-891-00	CARBON	330K 5% 1/4W	R605	1-215-469-00	METAL	100K 1% 1/6W
R509	1-249-424-11	CARBON	3.9K 5% 1/4W	R606	1-215-440-00	CARBON	6.2K 5% 1/4W
R510	1-249-426-11	CARBON	5.6K 5% 1/4W	R607	1-249-434-11	CARBON	27K 5% 1/4W
R511	1-249-429-11	CARBON	10K 5% 1/4W	R608	1-215-901-00	METAL OXIDE	33K 5% 2W F
R512	1-247-891-00	CARBON	330K 5% 1/4W	R609	1-249-401-11	CARBON	47 5% 1/4W
R513	1-249-429-11	CARBON	10K 5% 1/4W	R610	1-249-385-11	CARBON	2.2 5% 1/4W F
R514	1-249-409-11	CARBON	220 5% 1/4W	R611	1-249-385-11	CARBON	2.2 5% 1/4W F
R515	1-249-423-11	CARBON	3.3K 5% 1/4W	R612	1-217-193-00	WIREWOUND	0.27 10% 2W F
R516	1-249-408-11	CARBON	180 5% 1/4W	R613	1-249-401-11	CARBON	47 5% 1/4W
R517	1-249-429-11	CARBON	10K 5% 1/4W	R614	1-205-919-11	WIREWOUND	220 10% 10W F
R518	1-249-437-11	CARBON	47K 5% 1/4W	R616	1-249-417-11	CARBON	1K 5% 1/4W
R519	1-249-433-11	CARBON	22K 5% 1/4W	R617	1-249-411-11	CARBON	330 5% 1/4W
R520	1-249-411-11	CARBON	330 5% 1/4W	R618	1-218-022-51	METAL OXIDE	560 5% 1W
R521	1-249-405-11	CARBON	100 5% 1/4W	R619	1-249-429-11	CARBON	10K 5% 1/4W
R522	1-215-469-00	METAL	100K 1% 1/6W	R620	1-249-433-11	CARBON	22K 5% 1/4W
R523	1-249-417-11	CARBON	1K 5% 1/4W	R621	1-249-431-11	CARBON	15K 5% 1/4W
R524	1-249-421-11	CARBON	2.2K 5% 1/4W	R622	1-249-429-11	CARBON	10K 5% 1/4W
R525	1-249-417-11	CARBON	1K 5% 1/4W	R623	1-249-377-11	CARBON	0.47 5% 1/4W F
R526	1-249-409-11	CARBON	220 5% 1/4W F	R624	1-249-411-11	CARBON	330 5% 1/4W
R527	1-249-431-11	CARBON	15K 5% 1/4W	R625	1-218-017-51	METAL OXIDE	220 5% 1W
R528	1-249-408-11	CARBON	180 5% 1/4W	R626	1-249-411-11	CARBON	330 5% 1/4W
R529	1-249-427-11	CARBON	6.8K 5% 1/4W	R627	1-218-019-51	METAL OXIDE	330 5% 1W
R530	1-249-448-11	CARBON	1.2 5% 1/4W F	R628	1-249-393-11	CARBON	10 5% 1/4W
R531	1-247-881-00	CARBON	120K 5% 1/4W	R629	1-249-411-11	CARBON	330 5% 1/4W
R532	1-249-417-11	CARBON	1K 5% 1/4W	R630	1-249-437-11	CARBON	47K 5% 1/4W
R534	1-215-491-00	CARBON	820K 5% 1/4W	R633	1-249-405-11	CARBON	100 5% 1/4W
R535	1-249-749-00	CARBON	2.2M 5% 1/4W	R634	1-218-020-51	METAL OXIDE	390 5% 1W
R536	1-249-749-00	CARBON	2.2M 5% 1/4W	R635	1-249-429-11	CARBON	10K 5% 1/4W
R537	1-249-434-11	CARBON	27K 5% 1/4W	R636	1-249-429-11	CARBON	10K 5% 1/4W
R538	1-247-883-00	CARBON	150K 5% 1/4W	R642	1-216-343-00	METAL OXIDE	0.33 5% 1W F
R539	1-247-883-00	CARBON	150K 5% 1/4W	R643	1-217-192-21	WIREWOUND	0.22 10% 2W F
R540	1-249-399-11	CARBON	33 5% 1/4W	R647	1-216-485-11	METAL OXIDE	5.6K 5% 3W F
R541	1-249-438-11	CARBON	56K 5% 1/4W	R648	1-216-485-11	METAL OXIDE	5.6K 5% 3W F
R542	1-249-425-11	CARBON	4.7K 5% 1/4W	R649	1-249-385-11	CARBON	2.2 5% 1/4W
R543	1-215-088-00	METAL	2.2 5% 1/4W	R650	1-249-417-11	CARBON	1K 5% 1/4W
R544	1-247-745-11	CARBON	330 5% 1/2W	R651	1-249-405-11	CARBON	100 5% 1/4W
R545	1-249-433-11	CARBON	22K 5% 1/4W	R652	1-215-493-00	CARBON	1M 5% 1/4W
R546	1-249-434-11	CARBON	27K 5% 1/4W	R802	1-249-443-11	CARBON	0.47 5% 1/4W F
R547	1-249-423-11	CARBON	3.3K 5% 1/4W	R805	1-249-448-11	CARBON	1.2 5% 1/4W F
R548	1-216-349-00	METAL OXIDE	1 5% 1W F	R806	1-249-439-11	CARBON	68K 5% 1/4W
R549	1-215-890-11	METAL OXIDE	470 5% 2W F	R807	1-218-025-51	METAL OXIDE	1K 5% 1W
R550	1-249-440-11	CARBON	82K 5% 1/4W	R809	1-202-821-11	SOL ID	1.8K 10% 1/2W
R551	1-249-749-00	CARBON	2.2M 5% 1/4W	R810	1-202-818-00	SOL ID	1K 10% 1/2W
R552	1-218-026-51	METAL OXIDE	1.2K 5% 1W	R811	1-215-882-00	METAL OXIDE	22 5% 2W
R553	1-218-025-51	METAL OXIDE	1K 5% 1W	R812	1-244-917-00	CARBON	68K 5% 1/2W
R554	1-249-411-11	CARBON	330 5% 1/4W	R815	1-215-884-11	METAL OXIDE	47 5% 2W F
R555	1-249-749-00	CARBON	2.2M 5% 1/4W	R816	1-218-023-51	METAL OXIDE	680 5% 1W
				R817	1-249-417-11	CARBON	1K 5% 1/4W

The components identified by shading and mark  are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description				Remark	Ref.No.	Part No.	Description				Remark
R820	1-249-403-11	CARBON	68	5%	1/4W		C19	1-110-171-81	MYLAR	0.047MF	10%	100V	
R821	1-247-725-11	CARBON	10K	5%	1/4W	F	C20	1-102-978-00	CERAMIC	220PF	5%	50V	
R822	1-217-778-11	FUSIBLE	1K	5%	1W	F	C21	1-110-173-81	MYLAR	0.068MF	10%	100V	
R825	1-216-345-11	METAL OXIDE	0.47	5%	1W	F	C24	1-126-101-11	ELECT	100MF	20%	16V	
R826	1-249-441-11	CARBON	100K	5%	1/4W		C25	1-124-477-11	ELECT	47MF	20%	16V	
R827	1-249-429-11	CARBON	10K	5%	1/4W		C27	1-102-820-00	CERAMIC	330PF	5%	50V	
R828	1-249-423-11	CARBON	3.3K	5%	1/4W		C28	1-102-116-00	CERAMIC	680PF	10%	50V	
R829	1-249-416-11	CARBON	820	5%	1/4W		C29	1-124-927-11	ELECT	4.7MF	20%	50V	
R830	1-249-429-11	CARBON	10K	5%	1/4W		C51	1-110-175-81	MYLAR	0.1MF	10%	100V	
R831	1-215-088-00	METAL	2.2	5%	1/4W		C52	1-110-175-81	MYLAR	0.1MF	10%	100V	
R1001	1-249-421-11	CARBON	2.2K	5%	1/4W		C53	1-110-175-81	MYLAR	0.1MF	10%	100V	
R1002	1-249-423-11	CARBON	3.3K	5%	1/4W		C54	1-110-175-81	MYLAR	0.1MF	10%	100V	
R1004	1-249-408-11	CARBON	180	5%	1/4W		C55	1-110-175-81	MYLAR	0.1MF	10%	100V	
R1006	1-249-408-11	CARBON	180	5%	1/4W		C56	1-110-175-81	MYLAR	0.1MF	10%	100V	
R1007	1-249-408-11	CARBON	180	5%	1/4W		C57	1-102-074-00	CERAMIC	0.001MF	10%	50V	
R5501	1-249-429-11	CARBON	10K	5%	1/4W		C58	1-102-074-00	CERAMIC	0.001MF	10%	50V	
R5502	1-249-417-11	CARBON	1K	5%	1/4W		C59	1-102-074-00	CERAMIC	0.001MF	10%	50V	
R5503	1-249-389-11	CARBON	4.7	5%	1/4W								
R5504	1-215-493-00	CARBON	1M	5%	1/4W								
R5505	1-249-393-11	CARBON	10	5%	1/4W								
									FILM				
		VARIABLE RESISTOR					CP01	1-235-977-11	NETWORK, RES, THICK FILM				
							CP02	1-235-977-11	NETWORK, RES, THICK FILM				
RV501	1-228-991-00	RES, ADJ, CARBON 2.2K											
RV502	1-230-630-11	RES, ADJ, CARBON 10K							TRIMMER				
RV601	1-228-990-00	RES, ADJ, CARBON 1K											
							CT01	1-141-181-11	CAP, TRIMMER				
		SPARK GAP											
SG801	1-519-063-XX	DISCHARGING GAP							DIODE				
		TRANSFORMER					D01	8-719-109-89	DIODE RD5.6ES-B2				
							D02	8-719-110-36	DIODE RD13ES-B2				
							D03	8-719-911-19	DIODE 1SS119				
							D04	8-719-109-69	DIODE RD3.6ES-B2				
							D07	8-719-109-96	DIODE RD6.8ES-B1				
							D08	8-719-109-96	DIODE RD6.8ES-B1				
		TERMINAL PIN							IC				
TP91	*1-535-084-00	1P TERMINAL PIN					IC01	8-759-972-41	IC MAB8461P-W136				
							IC02	8-759-972-96	IC SAA5231-V6				
							IC03	8-759-946-85	IC SAA5243E				
							IC04	8-759-113-01	IC UPD4364CX-15L				
									COIL				
		CAPACITOR					L01	1-408-411-00	INDUCTOR	15UH			
							L02	1-410-468-11	INDUCTOR	6.8UH			
C01	1-126-101-11	ELECT	100MF	20%	16V		L03	1-410-468-11	INDUCTOR	6.8UH			
C02	1-124-120-11	ELECT	220MF	20%	16V		L04	1-410-468-11	INDUCTOR	6.8UH			
C03	1-124-119-00	ELECT	330MF	20%	16V		L05	1-410-468-11	INDUCTOR	6.8UH			
C04	1-124-477-11	ELECT	47MF	20%	16V		L06	1-410-468-11	INDUCTOR	6.8UH			
C05	1-126-101-11	ELECT	100MF	20%	16V								
C06	1-124-120-11	ELECT	220MF	20%	16V								
C07	1-124-499-11	ELECT	1MF	20%	50V				TRANSISTOR				
C08	1-102-951-00	CERAMIC	15PF	5%	50V		Q01	8-729-904-27	TRANSISTOR 2SD1761-E				
C09	1-102-074-00	CERAMIC	0.001MF	10%	50V		Q02	8-729-177-43	TRANSISTOR 2SD774				
C10	1-102-824-00	CERAMIC	470PF	5%	50V		Q03	8-729-900-80	TRANSISTOR DTC114ES				
							Q04	8-729-178-54	TRANSISTOR 2SC2785				
C11	1-110-182-81	MYLAR	0.022MF	10%	250V		Q05	8-729-177-43	TRANSISTOR 2SD774				
C12	1-102-980-00	CERAMIC	270PF	5%	50V		Q06	8-729-178-54	TRANSISTOR 2SC2785				
C13	1-102-973-00	CERAMIC	100PF	5%	50V		Q07	8-729-178-54	TRANSISTOR 2SC2785				
C14	1-102-951-00	CERAMIC	15PF	5%	50V		Q09	8-729-117-54	TRANSISTOR 2SA1175				
C15	1-102-961-00	CERAMIC	27PF	5%	50V		Q10	8-729-117-54	TRANSISTOR 2SA1175				
C16	1-110-190-81	MYLAR	0.01MF	10%	400V		Q11	8-729-117-54	TRANSISTOR 2SA1175				
C17	1-110-171-81	MYLAR	0.047MF	10%	100V								
C18	1-102-953-00	CERAMIC	18PF	5%	50V								

V J1

Ref.No.	Part No.	Description	Remark	Ref.No.	Part No.	Description	Remark
<u>RESISTOR</u>				C1406	1-124-902-00	ELECT 0.47MF	20% 50V
R01	1-215-867-00	METAL OXIDE 470 5% 1W	F	C1407	1-124-477-11	ELECT 47MF	20% 16V
R02	1-249-425-11	CARBON 4.7K 5% 1/4W		C1408	1-126-101-11	ELECT 100MF	20% 16V
R04	1-215-867-00	METAL OXIDE 470 5% 1W	F	C1409	1-124-908-11	ELECT 22MF	20% 50V
R05	1-215-128-00	METAL 100 5% 1/4W		C1410	1-123-875-11	ELECT 10MF	20% 50V
R06	1-249-417-11	CARBON 1K 5% 1/4W		C1411	1-123-875-11	ELECT 10MF	20% 50V
R07	1-249-405-11	CARBON 100 5% 1/4W		C1412	1-124-477-11	ELECT 47MF	20% 16V
R08	1-249-411-11	CARBON 330 5% 1/4W		C1413	1-124-477-11	ELECT 47MF	20% 16V
R09	1-249-438-11	CARBON 56K 5% 1/4W		C1414	1-123-875-11	ELECT 10MF	20% 50V
R13	1-249-405-11	CARBON 100 5% 1/4W		C1415	1-124-902-00	ELECT 0.47MF	20% 50V
R14	1-249-405-11	CARBON 100 5% 1/4W		C1416	1-124-902-00	ELECT 0.47MF	20% 50V
R15	1-215-493-00	CARBON 1M 5% 1/4W		C1417	1-124-120-11	ELECT 220MF	20% 16V
R16	1-249-420-11	CARBON 1.8K 5% 1/4W		C1418	1-102-112-00	CERAMIC 330PF	10% 50V
R17	1-249-417-11	CARBON 1K 5% 1/4W		C1419	1-102-112-00	CERAMIC 330PF	10% 50V
R18	1-249-425-11	CARBON 4.7K 5% 1/4W		C1421	1-124-477-11	ELECT 47MF	20% 16V
R19	1-249-411-11	CARBON 330 5% 1/4W		C1423	1-110-182-81	MYLAR 0.022MF	10% 250V
R20	1-215-146-00	METAL 560 5% 1/4W		C1424	1-110-182-81	MYLAR 0.022MF	10% 250V
R27	1-249-399-11	CARBON 33 5% 1/4W		C1425	1-124-902-00	ELECT 0.47MF	20% 50V
R28	1-249-399-11	CARBON 33 5% 1/4W		C1426	1-124-902-00	ELECT 0.47MF	20% 50V
R29	1-249-399-11	CARBON 33 5% 1/4W		C1427	1-101-003-00	CERAMIC 0.0047MF	50V
R30	1-215-130-00	METAL 120 5% 1/4W		C1428	1-101-003-00	CERAMIC 0.0047MF	50V
R31	1-215-130-00	METAL 120 5% 1/4W		C1429	1-101-003-00	CERAMIC 0.0047MF	50V
R32	1-215-130-00	METAL 120 5% 1/4W		C1430	1-102-112-00	CERAMIC 330PF	10% 50V
R33	1-249-404-00	CARBON 82 5% 1/4W		C1431	1-124-902-00	ELECT 0.47MF	20% 50V
R34	1-249-417-11	CARBON 1K 5% 1/4W		C1432	1-124-902-00	ELECT 0.47MF	20% 50V
R37	1-249-405-11	CARBON 100 5% 1/4W		C1433	1-126-101-11	ELECT 100MF	20% 16V
R38	1-249-416-11	CARBON 820 5% 1/4W		C1436	1-102-074-00	CERAMIC 0.001MF	10% 50V
R40	1-249-425-11	CARBON 4.7K 5% 1/4W		C1437	1-102-074-00	CERAMIC 0.001MF	10% 50V
R41	1-249-413-11	CARBON 470 5% 1/4W		C1501	1-123-875-11	ELECT 10MF	20% 50V
R43	1-249-425-11	CARBON 4.7K 5% 1/4W		C1502	1-123-875-11	ELECT 10MF	20% 50V
R44	1-249-413-11	CARBON 470 5% 1/4W		C1503	1-108-614-91	MYLAR 0.001MF	10% 100V
R45	1-215-152-00	METAL 1K 5% 1/4W		C1504	1-124-910-11	ELECT 47MF	20% 50V
R46	1-247-779-00	CARBON 6.8 5% 1/4W		C1505	1-110-171-81	MYLAR 0.047MF	10% 100V
<u>VARIABLE RESISTOR</u>				C1507	1-108-620-91	MYLAR 0.0033MF	10% 100V
RV01	1-230-624-51	RES, ADJ, CARBON 220		C1508	1-123-875-11	ELECT 10MF	20% 50V
<u>CONNECTOR</u>				C1509	1-124-499-11	ELECT 1MF	20% 50V
V1	*1-560-123-00	PLUG, CONNECTOR (2.5MM) 3P		C1511	1-123-875-11	ELECT 10MF	20% 50V
V2	*1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P		C1512	1-110-188-81	MYLAR 0.0068MF	10% 400V
V3	*1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P		C1513	1-102-963-00	CERAMIC 33PF	5% 50V
V4	*1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)		C1514	1-110-183-81	MYLAR 0.027MF	10% 250V
V5	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)		C1515	1-102-117-00	CERAMIC 820PF	10% 50V
V6	*1-508-784-00	1P PLUG		<u>CONNECTOR</u>			
<u>CRYSTAL</u>				CN1401	1-536-996-11	TERMINAL BOARD, INPUT/OUTPUT	
X01	1-567-162-00	OSCILLATOR, CRYSTAL		CN1402	1-561-534-41	SOCKET 21P	
X02	1-567-495-11	OSCILLATOR, CRYSTAL		CN1403	1-561-534-41	SOCKET 21P	
X03	1-567-686-11	OSCILLATOR, CERAMIC		CNJ25	*1-564-892-41	PLUG, CONNECTOR 3P	
*****				CNJ41	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	
*A-1371-373-A J1 BOARD, COMPLETE				CNJ43	*1-564-893-11	PLUG, CONNECTOR 4P	
*****				CNJ45	*1-564-894-11	PLUG, CONNECTOR 5P	
<u>CAPACITOR</u>				CNJ51	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	
C1401	1-123-875-11	ELECT 10MF	20% 50V	CNJ67	*1-560-721-21	PLUG, CONNECTOR 2P	
C1402	1-126-103-11	ELECT 470MF	20% 16V	CNJ142	*1-564-893-11	PLUG, CONNECTOR 4P	
C1403	1-102-112-00	CERAMIC 330PF	10% 50V	<u>DIODE</u>			
C1404	1-124-902-00	ELECT 0.47MF	20% 50V	D1401	8-719-110-04	DIODE RD7.5ES-B3	
C1405	1-101-003-00	CERAMIC 0.0047MF	50V	D1403	8-719-110-04	DIODE RD7.5ES-B3	
				D1404	8-719-110-04	DIODE RD7.5ES-B3	
				D1405	8-719-110-04	DIODE RD7.5ES-B3	
				D1406	8-719-110-04	DIODE RD7.5ES-B3	
				D1407	8-719-110-18	DIODE RD10ES-B3	
				D1408	8-719-110-14	DIODE RD9.1ES-B3	
				D1409	8-719-110-04	DIODE RD7.5ES-B3	
				D1410	8-719-110-04	DIODE RD7.5ES-B3	
				D1415	8-719-110-04	DIODE RD7.5ES-B3	

J1

J2

Ref.No.	Part No.	Description
D1418	8-719-110-04	DIODE RD7.5ES-B3
D1419	8-719-110-04	DIODE RD7.5ES-B3
D1420	8-719-110-04	DIODE RD7.5ES-B3
D1501	8-719-912-20	DIODE 1SS120
D1502	8-719-911-19	DIODE 1SS119
D1503	8-719-911-19	DIODE 1SS119
D1504	8-719-911-19	DIODE 1SS119
D1505	8-719-000-12	DIODE MC931
D1506	8-719-110-85	DIODE RD36ES-B4
D1507	8-719-911-19	DIODE 1SS119

IC

IC1401	8-752-032-27	IC CXA1114P
IC1402	8-759-946-32	IC TEA2014A
IC1501	8-759-942-16	IC TEA2031A

TRANSISTOR

Q1401	8-729-117-54	TRANSISTOR 2SA1175
Q1402	8-729-117-54	TRANSISTOR 2SA1175

RESISTOR

R1401	1-249-404-00	CARBON	82	5%	1/4W
R1402	1-247-698-11	CARBON	68	5%	1/4W
R1403	1-249-437-11	CARBON	47K	5%	1/4W
R1404	1-249-413-11	CARBON	470	5%	1/4W
R1405	1-249-429-11	CARBON	10K	5%	1/4W
R1407	1-247-895-00	CARBON	470K	5%	1/4W
R1408	1-249-434-11	CARBON	27K	5%	1/4W
R1409	1-249-413-11	CARBON	470	5%	1/4W
R1410	1-249-434-11	CARBON	27K	5%	1/4W
R1411	1-249-413-11	CARBON	470	5%	1/4W
R1412	1-249-437-11	CARBON	47K	5%	1/4W
R1413	1-247-895-00	CARBON	470K	5%	1/4W
R1414	1-249-437-11	CARBON	47K	5%	1/4W
R1415	1-249-434-11	CARBON	27K	5%	1/4W
R1416	1-249-434-11	CARBON	27K	5%	1/4W
R1417	1-249-404-00	CARBON	82	5%	1/4W
R1418	1-247-738-11	CARBON	82	5%	1/2W F
R1419	1-249-409-11	CARBON	220	5%	1/4W
R1420	1-249-409-11	CARBON	220	5%	1/4W
R1422	1-249-417-11	CARBON	1K	5%	1/4W
R1423	1-249-434-11	CARBON	27K	5%	1/4W
R1424	1-249-434-11	CARBON	27K	5%	1/4W
R1425	1-249-417-11	CARBON	1K	5%	1/4W
R1426	1-249-417-11	CARBON	1K	5%	1/4W
R1427	1-249-417-11	CARBON	1K	5%	1/4W
R1428	1-247-895-00	CARBON	470K	5%	1/4W
R1429	1-247-895-00	CARBON	470K	5%	1/4W
R1430	1-249-404-00	CARBON	82	5%	1/4W
R1433	1-249-409-11	CARBON	220	5%	1/4W
R1434	1-249-393-11	CARBON	10	5%	1/4W F
R1437	1-249-429-11	CARBON	10K	5%	1/4W
R1440	1-249-415-11	CARBON	680	5%	1/4W
R1441	1-249-415-11	CARBON	680	5%	1/4W
R1442	1-249-437-11	CARBON	47K	5%	1/4W
R1443	1-249-437-11	CARBON	47K	5%	1/4W
R1444	1-249-409-11	CARBON	220	5%	1/4W

Remark	Ref.No.	Part No.	Description			Remark
	R1445	1-249-440-11	CARBON	82K	5%	1/4W
	R1447	1-249-409-11	CARBON	220	5%	1/4W
	R1448	1-249-409-11	CARBON	220	5%	1/4W
	R1450	1-249-413-11	CARBON	470	5%	1/4W
	R1451	1-249-413-11	CARBON	470	5%	1/4W
	R1452	1-249-412-11	CARBON	390	5%	1/4W
	R1453	1-249-412-11	CARBON	390	5%	1/4W
	R1454	1-247-703-11	METAL	180	5%	1/4W
	R1455	1-247-703-11	METAL	180	5%	1/4W
	R1501	1-249-433-11	CARBON	22K	5%	1/4W
	R1502	1-249-434-11	CARBON	27K	5%	1/4W
	R1503	1-247-895-00	CARBON	470K	5%	1/4W
	R1504	1-249-435-11	CARBON	33K	5%	1/4W
	R1505	1-249-433-11	CARBON	22K	5%	1/4W
	R1506	1-247-895-00	CARBON	470K	5%	1/4W
	R1509	1-247-887-00	CARBON	220K	5%	1/4W
	R1510	1-249-426-11	CARBON	5.6K	5%	1/4W
	R1511	1-249-417-11	CARBON	1K	5%	1/4W
	R1512	1-249-429-11	CARBON	10K	5%	1/4W
	R1513	1-249-438-11	CARBON	56K	5%	1/4W
	R1514	1-249-417-11	CARBON	1K	5%	1/4W
	R1515	1-215-489-00	CARBON	680K	5%	1/4W
	R1516	1-249-432-11	CARBON	18K	5%	1/4W
	R1517	1-249-410-11	CARBON	270	5%	1/4W
	R1518	1-249-429-11	CARBON	10K	5%	1/4W
	R1519	1-247-883-00	CARBON	150K	5%	1/4W
	R1520	1-247-895-00	CARBON	470K	5%	1/4W
	R1521	1-249-425-11	CARBON	4.7K	5%	1/4W
	R1556	1-249-426-11	CARBON	5.6K	5%	1/4W
	VARIABLE RESISTOR					
	RV1501	1-228-999-00	RES, ADJ, CARBON	470K		
	RV1502	1-228-994-00	RES, ADJ, CARBON	10K		
	RV1503	1-228-995-00	RES, ADJ, CARBON	22K		
	RV1504	1-228-990-00	RES, ADJ, CARBON	1K		
	RV1505	1-228-999-00	RES, ADJ, CARBON	470K		
	RV1506	1-228-995-00	RES, ADJ, CARBON	22K		
	RV1507	1-230-504-11	RES, ADJ, CARBON	220		
	RV1508	1-228-994-00	RES, ADJ, CARBON	10K		
	RV1509	1-228-999-00	RES, ADJ, CARBON	470K		

	*1-625-205-11	J2 BOARD				

	CAPACITOR					
	C1401	1-126-105-11	ELECT	1000MF	20%	35V
	C1402	1-126-105-11	ELECT	1000MF	20%	35V
	CONNECTOR					
	CNJ23	*1-564-893-11	PLUG, CONNECTOR	4P		
	CNJ242	*1-564-893-11	PLUG, CONNECTOR	4P		
	JACK					
	J1401	1-507-806-00	JACK			
	RESISTOR					
	R1401	1-215-144-00	METAL	470	5%	1/4W
	R1402	1-215-144-00	METAL	470	5%	1/4W

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KS

The components identified by shading and mark Δ are critical for safety.
Replace only with part number specified.

Ref.No.	Part No.	Description	Remark
R216	1-249-433-11	CARBON 22K 5% 1/4W	
R217	1-249-431-11	CARBON 15K 5% 1/4W	
R218	1-249-417-11	CARBON 1K 5% 1/4W	
R219	1-249-429-11	CARBON 10K 5% 1/4W	
R220	1-249-425-11	CARBON 4.7K 5% 1/4W	
R221	1-249-417-11	CARBON 1K 5% 1/4W	
R222	1-249-417-11	CARBON 1K 5% 1/4W	
R223	1-249-413-11	CARBON 470 5% 1/4W	
R224	1-249-413-11	CARBON 470 5% 1/4W	
R225	1-249-417-11	CARBON 1K 5% 1/4W	
R226	1-249-417-11	CARBON 1K 5% 1/4W	
R227	1-249-417-11	CARBON 1K 5% 1/4W	
R228	1-249-417-11	CARBON 1K 5% 1/4W	
R229	1-249-441-11	CARBON 100K 5% 1/4W	
R230	1-249-441-11	CARBON 100K 5% 1/4W	

MISCELLANEOUS

Δ 1-451-311-21 DEFLECTION YOKE (SY-153E)
1-452-032-00 MAGNET, DISK; 10MM ϕ
1-452-094-00 MAGNET, ROTATABLE DISK; 15MM ϕ
1-503-642-21 SPEAKER
1-543-179-00 CORE, RING

Δ 1-559-346-11 CORD, POWER (WITH CONNECTOR)

L901 Δ 1-426-325-11 COIL, DEMAGNETIZATION
T802 Δ 1-439-416-11 TRANSFORMER ASSY, FLYBACK
V901 Δ 8-733-224-05 PICTURE TUBE (A59JWC60X)

ACCESSORIES AND PACKING MATERIALS

Part No.	Description	Remark
A-1470-844-A	COMMANDER ASSY (RM-673)	
*4-381-155-01	BAG, PROTECTION	
*4-387-845-01	CUSHION (UPPER) (ASSY)	
*4-387-846-01	CUSHION (LOWER) (ASSY)	
*4-387-847-01	INDIVIDUAL CARTON	
4-482-524-71	MANUAL, INSTRUCTION	